



**Board of Riley County
Commissioners
Regular Meeting
Agenda
February 23, 2023**

115 North 4th Street
Manhattan, KS 66502
www.rileycountyks.gov

Cindy Kabriel
785-565-6200

Commission Chambers

8:30 AM

[District 2 – Greg McKinley, Member](#)

[District 3 – Kathryn Focke, Chair](#)

[District 1 – John Ford, Vice Chair](#)

8:30 AM

Call to Order

Pledge of Allegiance

Public Comment

1. Public Comments

Commission Comments

2. Commission Comments

Business Meeting

3. Highway Use Permit, Twin Valley Telephone
4. Highway Use Permit, Twin Valley Telephone
5. Highway Use Permit, Twin Valley Telephone
6. Highway Use Permit, Twin Valley Telephone
7. Hunter's Island Rate Resolution
8. University Park Rate Resolution
9. Konza Rate Resolution
10. Deep Creek Rate Resolution
11. Fancy Creek Rd Bridge replacement Project- Twin Valley Telephone Utility Agreement
12. Riley County Grounds Maintenance Extension of Contract - Rothwell Landscaping, Inc.
13. Bid Approval
14. Sign Riley County Personnel Action Form(s)
15. Approve payroll/accounts payables (when completed)

Review Minutes

16. Board of Riley County Commissioners - Regular Meeting - Feb 16, 2023 9:00 AM

Review Tentative Agenda

17. Tentative Agenda

Press Conference Topics

18. Discuss Press Conference

- 9:00 AM** **Barry Wilkerson, County Attorney**
19. Staff update
- 9:15 AM** **Clancy Holeman, Counselor/Director of Administrative Services**
20. Administrative Work Session
21. Executive session to discuss confidential legal advice regarding potential litigation issues
- 9:35 AM** **Cory Meyer, IT/GIS Director**
22. IT/GIS Staff Update - February 2023
23. Out of State Travel Request - ESRI User Conference
- 9:50 AM** **David Adams, EMS Director**
24. EMS/Ambulance Staff Update
- 10:05 AM** **Vivienne Leyva, PIO**
25. Communications Update for February 2023
- 10:20 AM** **Darell Edie, Budget and Finance Officer**
26. High Point Road G.O. Temporary Note Resolution No. 022323-
- 10:30 AM** **Amanda Webb, Planning/Special Projects Director**
27. Request to refill Environmental Health Specialist position
28. Keats public meeting request
29. Planning & Development Department fee schedule review
- 11:10 AM** **John Ellermann, Public Works Director/County Engineer**
30. Bala City - Vacation Request of Certain Roads
- 11:30 AM** **Anna Burson, Appraiser**
31. Riley County Appraiser's "Who we are, what we do, valuation 2023"
- 12:00 PM** **Russel Stukey, Emergency Management Director**
32. Request permission to solicit bids for fire station construction project.
- Adjournment**

In order to comply with provisions of the Americans with Disabilities Act (ADA), Riley County will make reasonable efforts to accommodate the needs of persons with disabilities. Please contact the Division of Human Resources at (785) 537-6303 (voice and TTY) for assistance.



PUBLIC WORKS
Permit

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Shannon Sterling, Administrative Assistant II

MEETING: February 23, 2023

SUBJECT: Highway Use Permit, Twin Valley Telephone

PRESENTER: John Ellermann, PE, Director of Public Works

BACKGROUND

Twin Valley Telephone is requesting permission to work in the right of way to bury fiber optic cable to 8687 Alert Rd

RECOMMENDATION(S)

Staff recommends approval of the Highway Use Permit as presented

POSSIBLE MOTION(S)

Move to approve the Highway Use Permit granting Twin Valley Telephone permission to complete the work as outlined on the Permit.

The Board agreed by consensus to

Enclosures:

- 02.09.23_Twin Valley Telephone_8687 Alert Rd (PDF)

**Riley County Public Works Department
Highway Use Permit - Document Management Form**

Project Number: Bury fiber optic cable to house located at 8687 Alert Rd
Requesting Party: Twin Valley Telephone, 22 W. Spruce, Clay Center, KS 67432

Processing Procedure: Date and initial completed steps.

1. The public works department sends a copy of the document management form and permit to Operations Manager (OM) & Assistant County Engineer for recommendation.

Comments: Ensure all areas are backfilled, re-establish elevations and repair the existing right of way profiles within the work area. Maintain proper traffic control procedures during construction. **PROPERLY REPAIR ANY DAMAGE TO ROCK OR ASPHALT SURFACES.**

Signature: _____

[Handwritten Signature] 2/15/23

2. The public works department sends a copy of Highway Use Permit to Township for recommendation. Township will call Public Works with any recommendations, if applicable.

Comments: **Bala Township**

The public works department attaches document management form to permit and gets recommendation signature from County Engineer. If recommended proceed by submitting scanned .pdf file (to include: Doc. Management Form and Original Highway Use Permit, with County Engineer signature and any additional maps or pages) to Minute Traq for scheduling of Commission meeting agenda. Place "Sign Here" post-it on original and deliver original to County Clerk's designated employee. Keep one copy here for our files.

Date _____ by _____

3. County Clerk via Minute Traq schedules permit to be signed by Chairman during next BOCC business meeting.
4. BOCC Chairman signs and dates permit. County Clerk produces 2 copies of permit including attached maps and sends to Administrative Clerk Public Works **the next business day**. County Clerk keeps original.
5. The public works department distributes copies of permit received from County Clerk.
 - CC: Petitioner ☐
 - Operations Manager ☐
 - Township Trustee: _____ (if on Township Road) ☐
 - Highway Use Permit filed with Document Management Form attached ☐

Date _____ by _____

Submitted by: Shannon Sterling

Date Submitted: 02/10/2023

Attachment: 02.09.23_Twin Valley Telephone_8687 Alert Rd (13197 : Highway Use Permit)

APPLICATION FOR HIGHWAY USE PERMIT

Riley County, Kansas

Twin Valley Telephone
Applicant NameFiber optic cable
Type of Construction22 W Spruce
Applicant Mailing AddressMiltonvale
CityKS
State67466
Zip

Applicant hereby requests permission to do certain work along and/or across the public roads of Riley County, Kansas. The type of work and location of work to be done is described as follows: Bury fiber optic cable to 8687
alt road.

A \$100 Application Fee and a detailed map of location (include an aerial when possible) are required.

In support of its application, the Applicant states it is in the best interest of the residents of Riley County to allow construction of said facility. In addition, Applicant agrees as follows:

- A. Facility shall be installed in conformance with all items on approved plans, pertinent national codes/standards and the Riley County Highway Use Permit Requirements and Procedures. Any request for variance shall be an addendum to this application. Any utility sharing facilities with another entity is required to obtain a separate Highway Use Permit for their installation.
- B. A refundable deposit as specified in the Riley County Highway Use Permit Requirements and Procedures, made payable to Riley County, Kansas, shall accompany this application to guarantee satisfactory performance of the conditions of this permit.
- C. The County Engineer and/or the Township Trustee shall have the authority to require any needed repairs resulting from such construction in the road right-of-way for a period of one year from date of completed construction.
- D. In the event of road improvement or maintenance within the right-of-way, the applicant or its assigns will be responsible for the relocation of the facility at no cost to Riley County or the Township.
- E. Applicant shall notify the County Engineer at least 2 business days prior to the beginning of construction and upon completion of construction at 785-537-6330.
- F. It is understood, the work shall commence within three (3) months of the permit approval and be completed within thirty (30) days of the estimated duration of construction otherwise, the permit becomes null and void, unless an extension of time is approved.
- G. Applicant further represents it shall comply with and abide by any rule, regulation or condition of the permit made by the County Engineer and/or the Township Trustee.

Submitted by: _____

Submitter's Signature

2-8-2023

Date

Kody Gregory - construction coordinator
Printed Name & Title

785-630-0322

Submitter's Telephone Number

Carlyon and sons
Contractor NameKody.gregory@tutinc.net
Submitter's Email Address785-761-1837
Contractor Telephone Numberonce approved
Proposed Date of Construction3 days
Estimated Duration of Construction

RECOMMENDED BY: _____

Riley County Engineer

Permit granted this _____ day of _____, 20____.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS

Chairperson

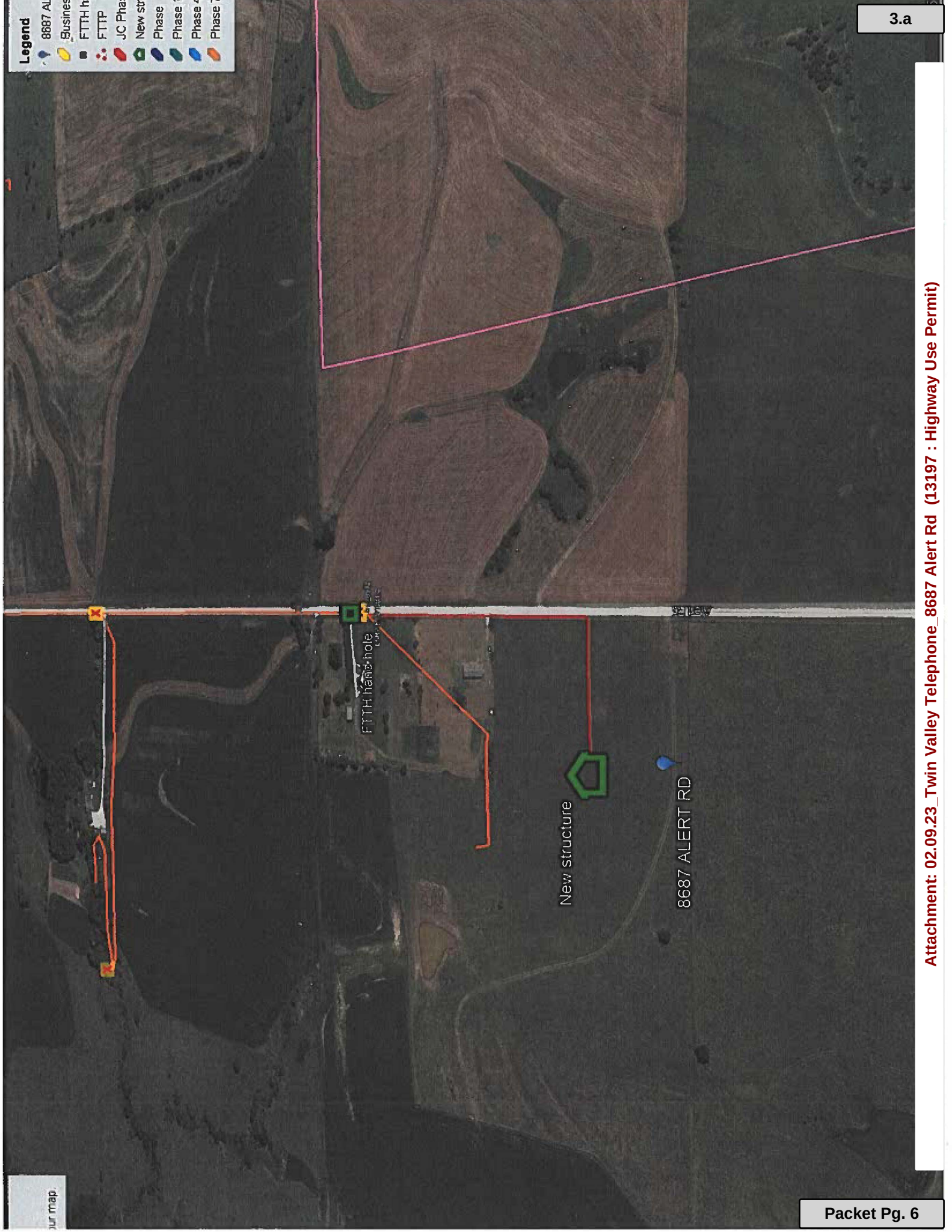
OFFICE USE ONLY:

Application Fee: \$100.00

\$1,000 Deposit _____ Bond ☒ Letter _____

Receipt No. 013008 Date: 2-9-23

Signature: S.S.





PUBLIC WORKS
Permit

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Shannon Sterling, Administrative Assistant II

MEETING: February 23, 2023

SUBJECT: Highway Use Permit, Twin Valley Telephone

PRESENTER: John Ellermann, PE, Director of Public Works

BACKGROUND

Twin Valley Telephone is requesting permission to work in the right of way to bury fiber optic cable to 14151 Alert Rd

RECOMMENDATION(S)

Staff recommends approval of the Highway Use Permit as presented

POSSIBLE MOTION(S)

Move to approve the Highway Use Permit granting Twin Valley Telephone permission to complete the work as outlined on the Permit.

The Board agreed by consensus to

Enclosures:

- 02.09.23_Twin Valley Telephone_14151 Alert Rd(PDF)

**Riley County Public Works Department
Highway Use Permit - Document Management Form**

Project Number: Bury fiber to new house located at 14151 Alert Rd
Requesting Party: Twin Valley Telephone, 22 W. Spruce, Clay Center, KS 67432

Processing Procedure: Date and initial completed steps.

1. The public works department sends a copy of the document management form and permit to Operations Manager (OM) & Assistant County Engineer for recommendation.

Comments: Ensure all areas are backfilled, re-establish elevations and repair the existing right of way profiles within the work area. Maintain proper traffic control procedures during construction. **PROPERLY REPAIR ANY DAMAGE TO ROCK OR ASPHALT SURFACES.**

Signature: _____

[Handwritten Signature] 2/15/23

2. The public works department sends a copy of Highway Use Permit to Township for recommendation. Township will call Public Works with any recommendations, if applicable.

Comments: *Fancy Creek Township:*

The public works department attaches document management form to permit and gets recommendation signature from County Engineer. If recommended proceed by submitting scanned .pdf file (to include: Doc. Management Form and Original Highway Use Permit, with County Engineer signature and any additional maps or pages) to Minute Traq for scheduling of Commission meeting agenda. Place "Sign Here" post-it on original and deliver original to County Clerk's designated employee. Keep one copy here for our files.

Date _____ by _____

3. County Clerk via Minute Traq schedules permit to be signed by Chairman during next BOCC business meeting.
4. BOCC Chairman signs and dates permit. County Clerk produces 2 copies of permit including attached maps and sends to Administrative Clerk Public Works **the next business day**. County Clerk keeps original.
5. The public works department distributes copies of permit received from County Clerk.
 - CC: Petitioner ☐
 - Operations Manager ☐
 - Township Trustee: _____ (if on Township Road) ☐
 - Highway Use Permit filed with Document Management Form attached ☐

Date _____ by _____

Submitted by: Shannon Sterling

Date Submitted: 02/10/2023

Attachment: 02.09.23_Twin Valley Telephone_14151 Alert Rd (13198 : Highway Use Permit)

APPLICATION FOR HIGHWAY USE PERMIT

Riley County, Kansas

Twin Valley Telephone

Fiber optic cable

Applicant Name

Type of Construction

22 W Spruce

Miltovale

KS

67466

Applicant Mailing Address

City

State

Zip

Applicant hereby requests permission to do certain work along and/or across the public roads of Riley County, Kansas. The type of work and location of work to be done is described as follows: Bury fiber to new house 14151 alert road.

A \$100 Application Fee and a detailed map of location (include an aerial when possible) are required.

In support of its application, the Applicant states it is in the best interest of the residents of Riley County to allow construction of said facility. In addition, Applicant agrees as follows:

- A. Facility shall be installed in conformance with all items on approved plans, pertinent national codes/standards and the Riley County Highway Use Permit Requirements and Procedures. Any request for variance shall be an addendum to this application. Any utility sharing facilities with another entity is required to obtain a separate Highway Use Permit for their installation.
- B. A refundable deposit as specified in the Riley County Highway Use Permit Requirements and Procedures, made payable to Riley County, Kansas, shall accompany this application to guarantee satisfactory performance of the conditions of this permit.
- C. The County Engineer and/or the Township Trustee shall have the authority to require any needed repairs resulting from such construction in the road right-of-way for a period of one year from date of completed construction.
- D. In the event of road improvement or maintenance within the right-of-way, the applicant or its assigns will be responsible for the relocation of the facility at no cost to Riley County or the Township.
- E. Applicant shall notify the County Engineer at least 2 business days prior to the beginning of construction and upon completion of construction at 785-537-6330.
- F. It is understood, the work shall commence within three (3) months of the permit approval and be completed within thirty (30) days of the estimated duration of construction otherwise, the permit becomes null and void, unless an extension of time is approved.
- G. Applicant further represents it shall comply with and abide by any rule, regulation or condition of the permit made by the County Engineer and/or the Township Trustee.

Submitted by: _____

Submitter's signature

2-7-2023

Date

Kody Gregory - construction coordinator

Printed Name & Title

785-630-0322

Submitter's Telephone Number

Carlton and sons

Contractor Name

Kody.gregory@tutinc.net

Submitter's Email Address

785-761-1837

Contractor Telephone Number

once approved

Proposed Date of Construction

3 days

Estimated Duration of Construction

RECOMMENDED BY: _____

Riley County Engineer

Permit granted this ____ day of _____, 20____.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS

Chairperson

OFFICE USE ONLY:

Application Fee: \$100.00

\$1,000 Deposit _____ Bond ☒ Letter _____

Receipt No. 013008 Date: 2-9-23

Signature: SS-



Legend

- 9687 ALI
- Business
- FTTH ha
- FTTP
- JC Phas
- New stru
- Phase
- Phase 1
- Phase 4
- Phase 7



PUBLIC WORKS
Permit

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Shannon Sterling, Administrative Assistant II

MEETING: February 23, 2023

SUBJECT: Highway Use Permit, Twin Valley Telephone

PRESENTER: John Ellermann, PE, Director of Public Works

BACKGROUND

Twin Valley Telephone is requesting permission to work in the right of way to bury fiber optic cable to 9321 Barton Road. Bore under Barton Road to existing hand hole (buried fiber vault)

RECOMMENDATION(S)

Staff recommends approval of the Highway Use Permit as presented

POSSIBLE MOTION(S)

Move to approve the Highway Use Permit granting Twin Valley Telephone permission to complete the work as outlined on the Permit.

The Board agreed by consensus to

Enclosures:

- 02.09.23_Twin Valley Telephone_9321 Barton Rd (PDF)

**Riley County Public Works Department
Highway Use Permit - Document Management Form**

Project Number: Bury fiber to house located at 9321 Barton Rd. Bore under Barton Rd to existing hand hold (buried fiber vault)

Requesting Party: Twin Valley Telephone, 22 W. Spruce, Clay Center, KS 67432

Processing Procedure: Date and initial completed steps.

1. The public works department sends a copy of the document management form and permit to Operations Manager (OM) & Assistant County Engineer for recommendation.

Comments: Ensure all areas are backfilled, re-establish elevations and repair the existing right of way profiles within the work area. Maintain proper traffic control procedures during construction. **PROPERLY REPAIR ANY DAMAGE TO ROCK OR ASPHALT SURFACES.**

Signature: _____

[Handwritten Signature] 3/15/23

2. The public works department sends a copy of Highway Use Permit to Township for recommendation. Township will call Public Works with any recommendations, if applicable.

Comments: N/A

The public works department attaches document management form to permit and gets recommendation signature from County Engineer. If recommended proceed by submitting scanned .pdf file (to include: Doc. Management Form and Original Highway Use Permit, with County Engineer signature and any additional maps or pages) to Minute Traq for scheduling of Commission meeting agenda. Place "Sign Here" post-it on original and deliver original to County Clerk's designated employee. Keep one copy here for our files.

Date _____ by _____

3. County Clerk via Minute Traq schedules permit to be signed by Chairman during next BOCC business meeting.
4. BOCC Chairman signs and dates permit. County Clerk produces 2 copies of permit including attached maps and sends to Administrative Clerk Public Works the **next business day**. County Clerk keeps original.
5. The public works department distributes copies of permit received from County Clerk.
 - CC: Petitioner ☐
 - Operations Manager ☐
 - Township Trustee: _____ (if on Township Road) ☐
 - Highway Use Permit filed with Document Management Form attached ☐

Date _____ by _____

Submitted by: Shannon Sterling

Date Submitted: 02/10/2023

APPLICATION FOR HIGHWAY USE PERMIT

Riley County, Kansas

Twin Valley Telephone

Fiber optic cable

Applicant Name

Type of Construction

22 W Spruce

Miltonvale

KS

67466

Applicant Mailing Address

City

State

Zip

Applicant hereby requests permission to do certain work along and/or across the public roads of Riley County, Kansas. The type of work and location of work to be done is described as follows: Bury fiber to 9321 Barton rd. Bore under Barton road to existing hand hole (buried fiber vault).

A \$100 Application Fee and a detailed map of location (include an aerial when possible) are required.

In support of its application, the Applicant states it is in the best interest of the residents of Riley County to allow construction of said facility. In addition, Applicant agrees as follows:

- A. Facility shall be installed in conformance with all items on approved plans, pertinent national codes/standards and the Riley County Highway Use Permit Requirements and Procedures. Any request for variance shall be an addendum to this application. Any utility sharing facilities with another entity is required to obtain a separate Highway Use Permit for their installation.
- B. A refundable deposit as specified in the Riley County Highway Use Permit Requirements and Procedures, made payable to Riley County, Kansas, shall accompany this application to guarantee satisfactory performance of the conditions of this permit.
- C. The County Engineer and/or the Township Trustee shall have the authority to require any needed repairs resulting from such construction in the road right-of-way for a period of one year from date of completed construction.
- D. In the event of road improvement or maintenance within the right-of-way, the applicant or its assigns will be responsible for the relocation of the facility at no cost to Riley County or the Township.
- E. Applicant shall notify the County Engineer at least 2 business days prior to the beginning of construction and upon completion of construction at 785-537-6330.
- F. It is understood, the work shall commence within three (3) months of the permit approval and be completed within thirty (30) days of the estimated duration of construction otherwise, the permit becomes null and void, unless an extension of time is approved.
- G. Applicant further represents it shall comply with and abide by any rule, regulation or condition of the permit made by the County Engineer and/or the Township Trustee.

Submitted by: _____

Submitter's signature

2-8-2023

Date

Kathy Gregory - construction coordinator

Printed Name & Title

785-630-0322

Submitter's Telephone Number

~~Phillips~~ Phillips Southern

Contractor Name

Kathy.gregory@tvtinc.net

Submitter's Email Address

~~316-265-4186~~ 316-265-4186

Contractor Telephone Number

Once approved

Proposed Date of Construction

3 days

Estimated Duration of Construction

RECOMMENDED BY: _____

Riley County Engineer

Permit granted this _____ day of _____, 20_____.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS

Chairperson

OFFICE USE ONLY:

Application Fee: \$100.00

\$1,000 Deposit _____ Bond ☒ Letter _____

Receipt No. 013008 Date: 2-9-23

Signature: SS

Write a description for your map.

New structure

Fully Handhole

New structure

Cooler Earth

Packet Pg. 14

Attachment: 02.09.23_Twin Valley Telephone_9321 Barton Rd (13199 : Highway Use Permit)

5.a



PUBLIC WORKS
Permit

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Shannon Sterling, Administrative Assistant II

MEETING: February 23, 2023

SUBJECT: Highway Use Permit, Twin Valley Telephone

PRESENTER: John Ellermann, PE, Director of Public Works

BACKGROUND

Twin Valley Telephone is requesting permission to work in the right of way to bury fiber optic cable to 12821 Madison Creek Road.

RECOMMENDATION(S)

Staff recommends approval of the Highway Use Permit as presented

POSSIBLE MOTION(S)

Move to approve the Highway Use Permit granting Twin Valley Telephone permission to complete the work as outlined on the Permit.

The Board agreed by consensus to

Enclosures:

- 02.09.23_Twin Valley Telephone_12821 Madison Creek Rd (PDF)

**Riley County Public Works Department
Highway Use Permit - Document Management Form**

Project Number: Bury fiber optic cable to house located at 12821 Madison Creek Rd
Requesting Party: Twin Valley Telephone, 22 W. Spruce, Clay Center, KS 67432

Processing Procedure: Date and initial completed steps.

1. The public works department sends a copy of the document management form and permit to Operations Manager (OM) & Assistant County Engineer for recommendation.

Comments: Ensure all areas are backfilled, re-establish elevations and repair the existing right of way profiles within the work area. Maintain proper traffic control procedures during construction. **PROPERLY REPAIR ANY DAMAGE TO ROCK OR ASPHALT SURFACES.**

Signature: _____

Amber R. Day 2/15/23

2. The public works department sends a copy of Highway Use Permit to Township for recommendation. Township will call Public Works with any recommendations, if applicable.

Comments: *Fancy Creek Township:*

The public works department attaches document management form to permit and gets recommendation signature from County Engineer. If recommended proceed by submitting scanned .pdf file (to include: Doc. Management Form and Original Highway Use Permit, with County Engineer signature and any additional maps or pages) to Minute Traq for scheduling of Commission meeting agenda. Place "Sign Here" post-it on original and deliver original to County Clerk's designated employee. Keep one copy here for our files.

Date _____ by _____

3. County Clerk via Minute Traq schedules permit to be signed by Chairman during next BOCC business meeting.
4. BOCC Chairman signs and dates permit. County Clerk produces 2 copies of permit including attached maps and sends to Administrative Clerk Public Works **the next business day**. County Clerk keeps original.
5. The public works department distributes copies of permit received from County Clerk.

CC: Petitioner	☐
Operations Manager	☐
Township Trustee: _____	(if on Township Road) ☐
Highway Use Permit filed with Document Management Form attached	☐

Date _____ by _____

Submitted by: Shannon Sterling

Date Submitted: 02/10/2023

Attachment: 02.09.23_Twin Valley Telephone_12821 Madison Creek Rd (13200 : Highway Use Permit)

APPLICATION FOR HIGHWAY USE PERMIT

Riley County, Kansas

Twin Valley telephone

Fiber optic cable

Applicant Name

Type of Construction

22 W Spruce

Miltonvale

KS

67466

Applicant Mailing Address

City

State

Zip

Applicant hereby requests permission to do certain work along and/or across the public roads of Riley County, Kansas. The type of work and location of work to be done is described as follows: Run fiber optic cable to house

12821 Madison Creek rd.

A \$100 Application Fee and a detailed map of location (include an aerial when possible) are required.

In support of its application, the Applicant states it is in the best interest of the residents of Riley County to allow construction of said facility. In addition, Applicant agrees as follows:

- Facility shall be installed in conformance with all items on approved plans, pertinent national codes/standards and the Riley County Highway Use Permit Requirements and Procedures. Any request for variance shall be an addendum to this application. Any utility sharing facilities with another entity is required to obtain a separate Highway Use Permit for their installation.
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- Applicant shall notify the County Engineer at least 2 business days prior to the beginning of construction and upon completion of construction at 785-537-6330.**
- It is understood, the work shall commence within three (3) months of the permit approval and be completed within thirty (30) days of the estimated duration of construction otherwise, the permit becomes null and void, unless an extension of time is approved.
- Applicant further represents it shall comply with and abide by any rule, regulation or condition of the permit made by the County Engineer and/or the Township Trustee.

Submitted by: _____

Submitter's signature

2-7-2023

Date

Kathy Gregory - construction coordinator

Printed Name & Title

785-630-0322

Submitter's Telephone Number

Carlyon and Sons

Contractor Name

Kathy.gregory@tulinc.net

Submitter's Email Address

785-761-1837

Contractor Telephone Number

once approved

Proposed Date of Construction

3 days

Estimated Duration of Construction

RECOMMENDED BY: _____

Riley County Engineer

Permit granted this _____ day of _____, 20____.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS

Chairperson _____

OFFICE USE ONLY:

Application Fee: \$100.00

\$1,000 Deposit _____ Bond _____ Letter _____

Receipt No. 013008 Date: 2-9-23

Signature: _____

APPLICATION FOR HIGHWAY USE PERMIT

Riley County, Kansas

Twin Valley telephone Fiber optic cable
 Applicant Name Type of Construction

22 W spruce Miltonvale KS 67466
 Applicant Mailing Address City State Zip

Applicant hereby requests permission to do certain work along and/or across the public roads of Riley County, Kansas. The type of work and location of work to be done is described as follows: Run fiber optic cable to house

12821 Madison Creek rd.

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- A refundable deposit as specified in the Riley County Highway Use Permit Requirements and Procedures, made payable to Riley County, Kansas, shall accompany this application to guarantee satisfactory performance of the conditions of this permit.
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- Applicant further represents it shall comply with and abide by any rule, regulation or condition of the permit made by the County Engineer and/or the Township Trustee.

Submitted by: Kathy Gregory 2-7-2023
 Submitter's signature Date

Kathy Gregory - construction coordinator
 Printed Name & Title

785-630-0922
 Submitter's Telephone Number

Carlyon and sons
 Contractor Name

Kathy.gregory@tulinc.net
 Submitter's Email Address

785-761-1837
 Contractor Telephone Number

once approved
 Proposed Date of Construction

3 days
 Estimated Duration of Construction

RECOMMENDED BY: [Signature]
 Riley County Engineer

Permit granted this ____ day of _____, 20____.

BOARD OF COUNTY COMMISSIONERS
 RILEY COUNTY, KANSAS

Chairperson

OFFICE USE ONLY:

Application Fee: \$100.00

\$1,000 Deposit _____ Bond ☒ Letter _____

Receipt No. 013008 Date: 2-9-23

Signature: S.S.



- Legend**
- 8687 AL
 - Business
 - FTTH h2
 - FTTP
 - JC Phas
 - New str
 - Phase 1
 - Phase 4
 - Phase 7

6.a

Attachment: 02.09.23_Twin Valley Telephone_12821 Madison Creek Rd (13200 : Highway Use Permit)



PUBLIC WORKS
Presentation

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Evan McMillan, Assistant Public Works Director
MEETING: February 23, 2023
SUBJECT: Hunter's Island Rate Resolution
PRESENTER: Evan McMillan, Assistant Public Works Director

BACKGROUND

Utility Rates for Hunter's Island Water were proposed last week to account for previous rate increases from the City and new costs of operation. The discussed rates, included in the attached rate resolutions, will accommodate the expected increases in water and operator costs for the upcoming year, and also allow for the generation of capital funds for future system improvements.

DISCUSSION

See attached rate resolutions for new rates, discussed on February 16th.

FISCAL IMPACT

All expenses incurred within the Water District are borne by the patrons within these Districts. No tax dollars are used.

RECOMMENDATION(S)

Staff has reviewed the expenses vs the revenues and concurs with the Advisory Board the above mentioned rates need to be increased.

POSSIBLE MOTION(S)

Move to approve Resolution 022323- _____ to modify specific rates for Water usage in the Hunter's Island Water Benefit District.

Enclosures:

- Hunter's Island Benefit District_Rate Resolution_022323 (PDF)

RESOLUTION NO- _____

**A RESOLUTION MODIFYING THE RATES FOR WATER USAGE IN THE
HUNTER'S ISLAND WATER BENEFIT DISTRICT IN RILEY COUNTY, KANSAS,
AND REPEALING RESOLUTIONS IN CONFLICT THEREWITH**

**BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF RILEY COUNTY,
KANSAS, AS FOLLOWS:**

Section 1: Pursuant to K.S.A. 19-3541, The Board of County Commissioners of Riley County, Kansas, sitting as the Governing Body of the Hunter's Island Water District, hereby establishes the following water user fees and rates for said District.

Monthly Fees:

- Water Rates
 - Minimum Monthly Charge \$ 19.00
(Includes no water usage)
 - Water Usage (per 100 cubic feet) \$ 4.86
- Monthly administration fee \$ 6.00
- Monthly Capital Reserve Fund \$ 3.00
- Local sales tax commercial (or current rate) 1.00%
- State Sales tax commercial (or current rate) 6.50%
- Kansas water protection fee (per 1000 gallons) \$.032

Other Fees:

- Activation Fee \$ 40.00
- Refundable Service Deposit \$ 75.00
- Non-payment Fee \$ 75.00
- Trip Charge \$ 40.00
- New connection fee \$ 500.00
- New connection feasibility fee \$ 100.00

Section 2: Meters will be read on the second to the last working day of the month. All billing will be mailed by the 5th of the month with payment due by 5:00 p.m. on the 18th. A late fee of 10% of the outstanding balance will be charged if payment is not received by the 18th.

Late notices will be mailed on the 19th, with disconnections 7 days from the date the late notice was sent unless the disconnect day falls on a Friday, Saturday, or Sunday. When the disconnect day falls on Friday, disconnects will be made on the immediately preceding Thursday. When the disconnect day falls on a Saturday or Sunday, disconnects will be made on the following Monday.

Section 3: Account holder/or recipient of services shall pay any and all charges related to the reasonable costs of collection of their account/service. The costs of collection include, but are not limited to, court costs, surcharges, attorney fees and collection agency fees, except such costs of collection may not include both attorney fees and collection agency fees.

Section 4: Resolutions in conflict herewith are hereby repealed.

Section 5: The fees established herein shall become effective April 1, 2023.

ADOPTED this ____ day of _____, 2023.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS, SITTING AS THE
GOVERNING BODY OF THE

Kathryn Focke, Chair

John Ford, Vice-Chair

Greg McKinley, Member

ATTEST:

By _____
Rich Vargo, County Clerk

(seal)



PUBLIC WORKS
Presentation

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Evan McMillan, Assistant Public Works Director
MEETING: February 23, 2023
SUBJECT: University Park Rate Resolution
PRESENTER: Evan McMillan, Assistant Public Works Director

BACKGROUND

Utility Rates for University Park Sewer and Water were proposed last week to account for previous rate increases from the City and new costs of operation. The discussed rates, included in the attached rate resolutions, will accommodate the expected increases in water and operator costs for the upcoming year, and also allow for the generation of capital funds for future system improvements.

DISCUSSION

See attached rate resolutions for new rates, discussed on February 16th.

FISCAL IMPACT

All expenses incurred within the Sewer and Water District are borne by the patrons within these Districts. No tax dollars are used.

RECOMMENDATION(S)

Staff has reviewed the expenses vs the revenues and concurs with the Advisory Board the above mentioned rates need to be increased.

POSSIBLE MOTION(S)

Move to approve Resolution 022323- _____ to modify specific rates for Water and Sewer usage in the University Park Sewer and Water Benefit District.

Enclosures:

- University Park Benefit District_Rates Resolution_022323 (PDF)

RESOLUTION NO- _____**A RESOLUTION MODIFYING THE RATES FOR WATER & SEWER USAGE IN THE UNIVERSITY PARK SEWER AND WATER BENEFIT DISTRICTS IN RILEY COUNTY, KANSAS, AND REPEALING RESOLUTIONS IN CONFLICT THEREWITH:**

BE IT RESOLVED by the Board of County Commissioners of Riley County, Kansas, as follows:

Section 1. Pursuant to K.S.A. 19-101 and K.S.A. 19-101c, K.S.A. 19-27a02, K.S.A. 19-27a09 and K.S.A. 19-3541, the Board of County Commissioners of Riley County, Kansas, sitting as the Governing Body of The University Park Sewer and Water Benefit District, hereby establishes the following user fees and rates for the District:

	<u>Amount</u>
a. Minimum Monthly Water Rate (no water)	\$ 18.00
b. Monthly Water Rate per 1,000 gallons	\$ 7.50
c. Monthly Sewer Rate	\$ 33.00
d. Monthly Water Rate per 1,000 gallons (2nd meter)	\$ 6.72

National Development Lots or Lots Outside the District:

e. Minimum Monthly Water Rate (no water)	\$ 18.00
f. Monthly Water Rate per 1,000 gallons	\$ 13.00
g. Monthly Sewer Rate	\$ 49.50

Other Charges:

h. Monthly Administrative Fee	\$ 4.75
i. Monthly Capital Reserve Fund Water	\$ 5.00
j. Monthly Capital Reserve Fund Sewer	\$ 5.00
k. Monthly Kansas Water Protection Fee per 1,000 gallons	\$.032
l. Non-Payment Fee	\$ 75.00
l. Trip Charge	\$ 40.00
m. Connection Fee Water	\$ 1,250.00
n. Connection Fee Sewer	\$ 1,250.00
o. New Connection Feasibility Fee	\$ 100.00
p. Refundable Service Deposit Fee	\$ 75.00
q. Activation Fee	\$ 40.00
r. Local Sales Tax Commercial (or current rate)	\$ 1.00%
s. State Sales Tax Commercial (or current rate)	\$ 6.50%

Section 2. Meters will be read on the second to the last working day of the month. All billings will be mailed by the 5th of the month with payment due by 5:00 p.m. on the 18th. A late fee of 10% of the outstanding balance will be charged if payment is not received by the 18th.

Late notices will be mailed on the 19th, with disconnection 7 days from the date the late notice was sent unless the disconnect day falls on a Friday, Saturday, or Sunday. When the disconnect day falls on Friday, disconnects will be made on the preceding Thursday. When the disconnect day falls on a Saturday or Sunday, disconnects will be made on the following Monday.

There will be an additional charge to install a meter pit which includes the labor, materials, and equipment.

Section 3. Account holder/or recipient of services shall pay any and all charges related to the reasonable costs of collection of their account/service. The costs of collection include, but are not limited to, court costs, surcharges, attorney fees and collection agency fees, except such costs of collection may not include both attorney fees and collection agency fees.

Section 4. Resolutions in conflict herewith are hereby repealed.

Section 5. The fees established herein shall become effective April 1, 2023.

ADOPTED this _____ day _____, 2023.

**BOARD OF COUNTY COMMISSIONERS OF RILEY
COUNTY, KANSAS, SITTING AS THE GOVERNING
BODY OF THE UNIVERSITY PARK SEWER AND
WATER BENEFIT DISTRICT**

Kathryn Focke, Chair

John Ford, Vice-Chair

Greg McKinley, Member

ATTEST:

Rich Vargo, Riley County Clerk

(seal)



PUBLIC WORKS
Presentation

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Evan McMillan, Assistant Public Works Director
MEETING: February 23, 2023
SUBJECT: Konza Rate Resolution
PRESENTER: Evan McMillan, Assistant Public Works Director

BACKGROUND

Utility Rates for Konza Water were proposed last week to account for previous rate increases from the City and new costs of operation. The discussed rates, included in the attached rate resolutions, will accommodate the expected increases in water and operator costs for the upcoming year, and also allow for the generation of capital funds for future system improvements.

DISCUSSION

See attached rate resolutions for new rates, discussed on February 16th.

FISCAL IMPACT

All expenses incurred within the Water District are borne by the patrons within these Districts. No tax dollars are used.

RECOMMENDATION(S)

Staff has reviewed the expenses vs the revenues and concurs with the Advisory Board the above mentioned rates need to be increased.

POSSIBLE MOTION(S)

Move to approve Resolution 022323- _____ to modify specific rates for Water usage in the Konza Water Benefit District.

Enclosures:

- Konza Benefit District_Rate Resolutions_022323 (PDF)

RESOLUTION NO- _____

A RESOLUTION MODIFYING THE RATES FOR WATER USAGE IN THE KONZA WATER BENEFIT DISTRICT IN RILEY COUNTY, KANSAS, AND REPEALING RESOLUTIONS IN CONFLICT THEREWITH

BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF RILEY COUNTY, KANSAS, AS FOLLOWS:

Section 1: Pursuant to K.S.A. 19-3541, The Board of County Commissioners of Riley County, Kansas, sitting as the Governing Body of the Konza Water District, hereby establishes the following water user fees and rates for said District.

Monthly Fees:

- Water Rates

Minimum Monthly Charge	\$ 28.00
(Includes no water usage)	
Water Usage (per 1000 gallons)	\$ 5.20
- Monthly administration fee \$ 4.00
- Local sales tax commercial (or current rate) 1.00%
- State Sales tax commercial (or current rate) 6.50%
- Kansas water protection fee (per 1000 gallons) \$.032

Other Fees:

- Activation Fee \$ 40.00
- Refundable Service Deposit \$ 75.00
- Non-payment Fee \$ 75.00
- Trip Charge \$ 40.00
- New connection fee \$ 2,500.00
- New connection feasibility fee \$ 100.00

Section 2: Meters will be read on the second to the last working day of the month. All billing will be mailed by the 5th of the month with payment due by 5:00 p.m. on the 18th. A late fee of 10% of the outstanding balance will be charged if payment is not received by the 18th.

Late notices will be mailed on the 19th, with disconnections 7 days from the date the late notice was sent unless the disconnect day falls on a Friday, Saturday, or Sunday. When the disconnect day falls on Friday, disconnects will be made on the immediately preceding Thursday. When the disconnect day falls on a Saturday or Sunday, disconnects will be made on the following Monday.

Section 3: Account holder/or recipient of services shall pay any and all charges related to the reasonable costs of collection of their account/service. The costs of collection include, but are not limited to, court costs, surcharges, attorney fees and collection agency fees, except such costs of collection may not include both attorney fees and collection agency fees.

Section 4: Resolutions in conflict herewith are hereby repealed.

Section 5: The fees established herein shall become effective April 1, 2023.

ADOPTED this ____ day of _____, 2023.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS, SITTING AS THE
GOVERNING BODY OF THE

Kathryn Focke, Chair

John Ford, Vice-Chair

Greg McKinley, Member

ATTEST:

By _____
Rich Vargo, County Clerk

(seal)



PUBLIC WORKS
Presentation

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Evan McMillan, Assistant Public Works Director

MEETING: February 23, 2023

SUBJECT: Deep Creek Rate Resolution

PRESENTER: Evan McMillan, Assistant Public Works Director

BACKGROUND

New utility rates for Deep Creek Sewer were proposed last week in efforts to begin generating new Capital and to accommodate the expected increase in operator costs from the recent employee raises. The Capital fund available for this district has been somewhat stagnant over the last 10 years and will need increased for future system improvements, namely improving the access road to the lagoon, splitting of the lagoon as it is oversized, and maintenance and replacement of the existing lift station.

DISCUSSION

See attached rate resolutions for new rates, discussed on February 16th.

FISCAL IMPACT

All expenses incurred within the Sewer District are borne by the patrons within these Districts. No tax dollars are used.

RECOMMENDATION(S)

Staff has reviewed the expenses vs the revenues and concurs with the Advisory Board the above mentioned rates need to be increased.

POSSIBLE MOTION(S)

Move to approve Resolution 022323- _____ to modify specific rates for Sewer usage in the Deep Creek Sewer Benefit District.

Enclosures:

- Deep Creek Benefit District_Rate Resolution_022323 (PDF)

RESOLUTION NO-_____

A RESOLUTION MODIFYING THE RATES FOR SEWER USAGE IN THE DEEP CREEK SEWER BENEFIT DISTRICT IN RILEY COUNTY, KANSAS, AND REPEALING RESOLUTIONS IN CONFLICT THEREWITH

BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF RILEY COUNTY, KANSAS, AS FOLLOWS:

Section 1: Pursuant to K.S.A. 19-101 and K.S.A. 19-101c, K.S.A. 19-27a02, K.S.A. 19-27a09, The Board of County Commissioners of Riley County, Kansas, sitting as the Governing Body of the Deep Creek Sewer Benefit District, hereby establishes the following sewer user fees and rates for said District.

Monthly Fees:

- | | |
|------------------------------|----------|
| • Sewer Fee | \$ 22.00 |
| • Capital Replacement | \$ 15.50 |
| • Monthly administration fee | \$ 7.50 |

Other Fees:

- | | |
|----------------------------------|-------------|
| • Activation Fee | \$ 40.00 |
| • Refundable Service Deposit | \$ 75.00 |
| • Non-payment Fee | \$ 75.00 |
| • Trip Charge | \$ 40.00 |
| • New connection fee | \$ 2,500.00 |
| • New connection feasibility fee | \$ 100.00 |

Section 2: All billing will be mailed by the 5th of the month with payment due by 5:00 p.m. on the 18th. A late fee of 10% of the outstanding balance will be charged if payment is not received by the 18th. Late notices will be mailed on the 19th.

Section 3: Account holder/or recipient of services shall pay any and all charges related to the reasonable costs of collection of their account/service. The costs of collection include, but are not limited to, court costs, surcharges, attorney fees and collection agency fees, except such costs of collection may not include both attorney fees and collection agency fees.

Section 4: Resolutions in conflict herewith are hereby repealed.

Section 5: The fees established herein shall become effective April 1, 2023.

ADOPTED this ____ day of _____, 2023.

BOARD OF COUNTY COMMISSIONERS
RILEY COUNTY, KANSAS, SITTING AS THE
GOVERNING BODY OF THE

Kathryn Focke, Chair

John Ford, Vice-Chair

Greg McKinley, Member

ATTEST:

By _____
Rich Vargo, County Clerk

(seal)

Attachment: Deep Creek Benefit District Rate Resolution_022323 (13196 : Deep Creek Rate Resolution)



PUBLIC WORKS
Project

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: Evan McMillan, Assistant Public Works Director

MEETING: February 23, 2023

SUBJECT: Fancy Creek Rd Bridge replacement Project- Twin Valley Telephone Utility Agreement

PRESENTER: Evan McMillan, Assistant Public Works Director

Attached for your approval is the agreement with Twin Valley Telephone to relocate any of their facilities which would be in conflict with the construction of the Fancy Creek Road Bridge Replacement. There will be no cost to Riley County.

Staff recommends approval.

POSSIBLE MOTION(S)

Move to approve the utility relocation agreement with Twin Valley Telephone.

Enclosures:

- Twin Valley Telephone Utility ROW Agreement (PDF)

Riley County
Project K.0-6.2

AN AGREEMENT relative to performing certain work and /or the occupancy of the County's highway right-of-way by the facilities of a Utility.

THIS AGREEMENT, made and entered into by and between Twin Valley Telephone, hereinafter referred to as the Company, and Riley County, hereinafter referred to as the County.

WHEREAS: The County has authorized the preparation of construction plans for the improvement of a portion of a County Road described as follows:

SE ¼ of NE ¼ T.7S., R.6E. near East Section Line of Section 5; Approx. 1300 ft. Westerly of N. Otter Branch Rd. on Fancy Creek Road, in Riley County, Kansas

WHEREAS: The Secretary of Transportation of the State of Kansas requires that the County and the Company enter into an agreement for any utility adjustments and/or relocations which conflict with the work of this project.

NOW, THEREFORE, BE IT AGREED:

1. That the Company will maintain, adjust or construct its facilities which conflict with the construction activities as shown by the plans for the above numbered project in conformance with the following provisions and/or as shown by the plan and description attached hereto and made a part of this agreement.

One partial set of plans including the Title Sheet, Plan and Profile Sheet, Contour Map Sheet, and Cross Section Sheets are submitted herewith.

2. That the cost of the alterations, if any, shall be paid for as follows:

By the Company for alteration of facilities located within the existing right-of-way. By the County for alteration of facilities located outside the existing right-of-way.

3. That the construction or alterations of the Company's facilities, if any, shall be completed within 30 days after the County furnishes to the Company the information indicated in Items 7 and 8 of this agreement and notifies the Company in writing that the right of way has been acquired if applicable, and any necessary alterations may proceed.
4. That the Company will repair any damage done to the highway right of way by the Company or it's Contractor.
5. That the Company will perform the above described work in a manner which will not endanger the vehicular traffic on the highway.
6. That in the event future highway improvements necessitate the removal or adjustment of said facilities now located on highway/street right of way and/or such facilities relocated on

newly acquired right of way for the construction of this project, if applicable, the Company will, upon request of the County, make such adjustments as required to accommodate any future highway improvement at no cost to the County.

7. That the County will furnish the Company copies of the plans for the project.
8. That the County will provide alignment points as requested by the Company for the use of the Company in locating its facilities.

IN WITNESS WHEREOF the parties hereto have duly executed this agreement in triplicate on this 13 day of Feb, 2022.

COUNTY COUNCIL

Recommended for Approval:


County Highway Administrator

Chairman

Commissioner

ATTEST:

Commissioner

County Clerk

COMPANY:

Twin Valley Telephone

Address 618 6th Street, Clay Center, KS 67432

By Kody Gregory

Title Construction coordinator

Original to County
Copy to Company
Copy to Schwab Eaton



PUBLIC WORKS
Agreement

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: John Ellermann, Public Works Director

MEETING: February 23, 2023

SUBJECT: Riley County Grounds Maintenance Extension of Contract - Rothwell Landscaping, Inc.

PRESENTER: John Ellermann, Public Works Director

Attached for your approval is the Riley County Grounds Maintenance Extension of Contract

The Extension of Contract is related to the Riley County Grounds Maintenance Agreement Contract dated April 18, 2022. This extends our contract with Rothwell Landscape Inc. for one more year, and is the first extension of the original contract.

Using the format of the original agreement, the total cost of this contract is \$19,602.00. This amount is to be paid in 9 monthly installments of \$2,178.00/month from April 2023 to November 2023.

POSSIBLE MOTION(S)

Move to sign and approve.

Enclosures:

- Extension of Contract_Grounds Maintenance_Rothwell Landscape Inc_2023 (PDF)



EXTENSION OF CONTRACT

RILEY COUNTY GROUNDS MAINTENANCE

TO THE BOARD OF COUNTY COMMISSIONERS, RILEY COUNTY, KANSAS; THE UNDERSIGNED: hereby proposes the following request to extend the Riley County Grounds Maintenance Contract between Riley County, Kansas (Owner) and Rothwell Landscape, Inc. (Contractor).

This Extension of Contract is related to the Riley County Grounds Maintenance Agreement Contract dated April 18, 2022.

Using the format of the original agreement, the total contract amount of \$19,602.00 is to be paid in nine (9) monthly installments made on the following schedule:

Payment Date	Amount	Submit Invoice by:
7 April, 2023	\$2,178.00	24 March, 2023
21 April, 2023	\$2,178.00	7 April, 2023
19 May, 2023	\$2,178.00	5 May, 2023
16 June, 2023	\$2,178.00	2 June, 2023
14 July, 2023	\$2,178.00	30 June, 2023
25 August, 2023	\$2,178.00	11 August, 2023
22 September, 2023	\$2,178.00	8 September, 2023
20 October, 2023	\$2,178.00	6 October, 2023
17 November, 2023	\$2,178.00	3 November, 2023

C-18 DURATION OF CONTRACT. This Contract shall begin on the date of execution and expire on 31 December 2022. Riley County reserves the rights to extend the contract for up to four additional option years on an annual review and decision basis.

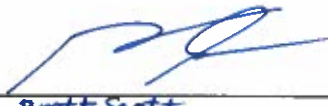
As provided for in Special Provision C-18, Riley County hereby extends the Grounds Maintenance contract with Rothwell Landscape, Inc. for the year 2023.

IN WITNESS WHEREOF, the parties hereto have executed the Extension of Contract
as of this _____ day of _____, 2023.

RILEY COUNTY, KANSAS
Party of the First Part
(Owner)

Rothwell Landscape, Inc.
Party of the Second Part
(Contractor)

By _____
Chair, Board of County Commissioners

By  _____
Brett Scott
Title Manager

ATTEST _____
County Clerk

* * * * *

The Extension of Contract is in due form according to law and is hereby approved.

County Counselor



COUNTY CLERK & ELECTIONS
Funding

Rich Vargo
County Clerk
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-565-6200

COMMISSION AGENDA REPORT

FROM: Darell Edie, Budget & Finance Officer

MEETING: February 23, 2023

SUBJECT: Bid Approval

PRESENTER: Darell Edie, Budget & Finance Officer

POSSIBLE MOTION(S)

Move to approve

Move to deny

The Board agreed by consensus to

Enclosures:

- February 16 bids (PDF)
- GO Temp Note Series A Due 02162023 AM (PDF)

**Riley County Clerk
110 Courthouse Plaza
Manhattan, KS 66502**

Bid Sheet

Date: February 16, 2023
Time: 10:50 a.m.

Project: General Obligation Temporary Notes Series A, 2023 for High Plains Ranch

Company

Interest Rate

KS State Bank 2627 KFB Plaza, Suite 202E Manhattan, KS 66503	161,000			5.39%
United Bank & Trust 221 N. 4 th Street, Suite A Manhattan, KS 66502	161,000			5.73%

Attachment: February 16 bids (13191 : G.O. Temporary Notes A)

\$161,000 PRINCIPAL AMOUNT
RILEY COUNTY KANSAS
As "ISSUER"
GENERAL OBLIGATION TEMPORARY NOTES
SERIES A, 2023

13.b

TERMS SHEET

PRINCIPAL:	\$161,000
MATURITY:	September 15, 2024
RATE:	To Be Determined
DATED AND DELIVERY DATE:	On or about March 15, 2023
INTEREST PAYMENTS:	At maturity or earlier redemption. Interest calculated on a 30/360 day count basis.
OPTIONAL REDEMPTION:	Notes may be called for early redemption on July 15, 2023 and thereafter, in whole or in part @ 100%, plus accrued interest
SECURITY:	The Notes are general obligations of the County, to be repaid from special assessments levied upon certain properties in the county benefiting from road improvements financed with proceeds of the Notes. If not so paid, the Notes are payable from other available funds or ad valorem property taxes levied without limitation as to rate or amount upon all taxable tangible property, real and personal, in the territorial limits of the County.
PROJECTS:	Proceeds from the sale of the Notes will provide funds to pay a portion of the costs of constructing improvements to High Plains Ranch Road.
TYPE:	Fully Registered – Certificated
DENOMINATIONS:	A single registered certificate for the full principal amount will be delivered to the purchaser at closing. The Notes are issued in minimum denominations of \$100,000 and integral multiples of \$1,000 in excess thereof.
PAYING AGENT AND NOTE REGISTRAR:	Kansas State Treasurer
BOND COUNSEL/LEGAL OPINION:	Triplett Woolf Garretson, LLC, Wichita, KS
RATING	Not Rated
SEC RULE 15C2-12 EXEMPTION. PURCHASER REPRESENTATIONS:	Because the Issuer intends to directly sell the Notes to a financial institution, the Issuer has not prepared an official statement or other disclosure documents for the Notes and is not making a continuing disclosure undertaking under SEC Rule 15c2-12, with respect to the Notes. By signing this Terms Sheet the purchaser of the Notes acknowledges that they (a) are capable of evaluating and bearing credit risks of the Notes; (b) have obtained necessary information to evaluate the structure and credit of the Notes; (c) have not relied on representations of the Issuer or its representatives to make the decision to purchase the Notes; (d) are purchasing the Notes for its own account and do not intend to sell or redistribute the Notes; (e) understand the Notes are not sold pursuant to an official statement or other disclosure document, and no official statement or preliminary official statement or other disclosure document will be part of the closing transcript for the Notes; (f) understand the Notes may not be transferred without prior compliance with applicable federal and state securities laws.
TAX STATUS:	Interest on the Notes is (i) excluded from gross income for federal income tax purposes, is not an item of tax preference for purposes of the federal alternative minimum tax; however, for purposes of computing the alternative minimum tax imposed on applicable corporations (as defined in the Internal Revenue Code), such interest is taken into account in determining annual adjusted financial statement income for the tax years beginning after December 31, 2022, and (ii) excluded from computation of Kansas adjusted gross income. The Issuer will designate the Notes as "qualified tax-exempt obligations", i.e., "Bank Qualified" Notes, under Section 265(b)(3) of the Internal Revenue Code. To establish the "issue price" of the Notes under applicable federal law governing tax exempt obligations, the Issuer will require certifications from the purchaser of the Notes necessary to establish issue price of the Notes under the so called "private placement rule" of the applicable federal regulations (Section 1. 148-1(f)(2)). The purchaser will be asked to certify that (i) it is not acting as an "underwriter" with respect to the Notes, (ii) it has no present intention to sell, reoffer, or otherwise dispose of the Notes (or any portion of the Notes or interest in the Notes), (iii) it has not contracted in writing with any person to have such person participate in the initial sale of the Notes, and (iv) it has not agreed with the Issuer pursuant to a written agreement to sell the Notes to persons other than the purchaser or a "related party" to the purchaser.

Attachment: GO Temp Note Series A Due 02162023 AM (13191 : G.O. Temporary Notes A)

If interested in purchasing the Notes, please complete the information below and e-mail this Terms Sheet to Darell Edie at dedie@rileycountyks.gov (or fax to 785-537-6394) by no later than 9:00 A.M. on Thursday, February 16, 2023:

Interest Rate: 5.39% %

All costs incurred by the purchaser including but not limited to documentation review, credit analysis, safekeeping and origination, shall be the responsibility of the purchaser and will not be paid by the County.

<u>Principal Amount</u>	<u>Name of Institution</u>	<u>Authorized Representative</u> <u>SIGNATURE</u>	<u>Date</u>
\$161,000.00	<u>KS StateBank</u>	<u>Linda J. Tiers, VP</u>	<u>2/16/2023</u>

The date of this Terms Sheet is February 1, 2023

Disclaimer: This Terms Sheet is intended solely to provide an overview of the structure and purpose of the Notes. It is not intended nor should it be considered to be completely descriptive of the transaction.

Attachment: GO Temp Note Series A Due 02162023 AM (13191 : G.O. Temporary Notes A)



COUNTY CLERK & ELECTIONS
Personnel

Rich Vargo
County Clerk
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-565-6200

COMMISSION AGENDA REPORT

FROM: Elizabeth Ward, Human Resource Manager

MEETING: February 23, 2023

SUBJECT: Sign Riley County Personnel Action Form(s)

PRESENTER: Elizabeth Ward, Human Resource Manager

Enclosures:

- 2-2023 Treasurer T Dugger EAF (PDF)
- 2-2023 HD P Balaraman EAF (PDF)
- 2-2023 HD E Kegley EAF(PDF)
- 2-2023 HD P Gatica EAF (PDF)
- 2-2023 Appraiser J Wurtz EAF (PDF)
- 2-2023 PW C Frimmel EAF (PDF)
- 2-2023 Tresurer B Cox EAF (PDF)
- 2-2023 PW R Isbel EAF (PDF)

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Tyler Dugger**Status Change Date:** 02/03/2023**Status Change:** Separation**Date of Hire:** 04/04/2022**Seniority:** 10 Month(s)**Position:** Customer Svc Rep I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$17.94**Annualized Pay:** \$37,315.20**Funds Codes:** 1-County General, 7-Treasurer, 0-None**Supervisor:** Donna Borgerding**Department Head:** Shilo Heger

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Pillai Balaraman**Status Change Date:** 02/02/2023**Status Change:** New Hire**Date of Hire:** 02/02/2023**Seniority:** 0 Month(s)**Position:** INTERN**Position Type:** Intern**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$0**Annualized Pay:** \$00**Funds Codes:** 30-Health Department, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Erica Kegley**Status Change Date:** 02/06/2023**Status Change:** New Hire**Date of Hire:** 02/06/2023**Seniority:** 0 Month(s)**Position:** INTERN**Position Type:** Intern**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$0**Annualized Pay:** \$00**Funds Codes:** 1-County General, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Paulina Gatica**Status Change Date:** 02/13/2023**Status Change:** Rehire**Date of Hire:** 09/20/2021**Seniority:** 0 Month(s)**Position:** MRC Unit Leader**Position Type:** Temporary**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$21.73**Annualized Pay:** \$45,198.40**Funds Codes:** 30-Health Department, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Donna Spillane**Status Change Date:** 02/06/2023**Status Change:** New Hire**Date of Hire:** 02/06/2023**Seniority:** 0 Month(s)**Position:** Appraiser III-Residential**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Salary**Base Rate:** \$0**Annualized Pay:** \$00**Funds Codes:** 1-County General, 22-Appraiser, 0-None**Supervisor:** Danny Williams**Department Head:** Anna Burson

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Julieanne Wurtz**Status Change Date:** 02/24/2023**Status Change:** Transfer**Date of Hire:** 03/19/2001**Seniority:** 21 Years, 11 months**Position:** Appraiser III-Residential**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Salary**Base Rate:** \$31.39**Annualized Pay:** \$65,301.60**Funds Codes:** 1-County General, 22-Appraiser, 0-None**Supervisor:** Danny Williams**Department Head:** Anna Burson

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Cole Frimmel**Status Change Date:** 02/27/2023**Status Change:** New Hire**Date of Hire:** 02/17/2023**Seniority:** 0 Month(s)**Position:** Engineering Technician I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$26.98**Annualized Pay:** \$56,118.40**Funds Codes:** 1-County General, 40-Public Works, 0-None**Supervisor:** Evan McMillan**Department Head:** John Ellermann

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Bailey Cox**Status Change Date:** 02/27/2023**Status Change:** New Hire**Date of Hire:** 02/13/2023**Seniority:** 0 Month(s)**Position:** Customer Svc Rep I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$19.03**Annualized Pay:** \$39,582.40**Funds Codes:** 1-County General, 7-Treasurer, 0-None**Supervisor:** Donna Borgerding**Department Head:** Shilo Heger

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Riley Isbel**Status Change Date:** 02/01/2023**Status Change:** Separation**Date of Hire:** 07/21/2022**Seniority:** 6 Month(s)**Position:** Facility & Grounds Tech I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$18.58**Annualized Pay:** \$38,646.40**Funds Codes:** 1-County General, 40-Public Works, 81-Parks**Supervisor:** David Willis**Department Head:** John Ellermann

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Attachment: 2-2023 Treasurer T Dugger EAF (13202 : Personnel Action Form (Green Sheet))

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Pillai Balaraman**Status Change Date:** 02/02/2023**Status Change:** New Hire**Date of Hire:** 02/02/2023**Seniority:** 0 Month(s)**Position:** INTERN**Position Type:** Intern**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$0**Annualized Pay:** \$00**Funds Codes:** 30-Health Department, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

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BoCC Member _____

Date: _____

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Erica Kegley**Status Change Date:** 02/06/2023**Status Change:** New Hire**Date of Hire:** 02/06/2023**Seniority:** 0 Month(s)**Position:** INTERN**Position Type:** Intern**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$0**Annualized Pay:** \$00**Funds Codes:** 1-County General, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Paulina Gatica**Status Change Date:** 02/13/2023**Status Change:** Rehire**Date of Hire:** 09/20/2021**Seniority:** 0 Month(s)**Position:** MRC Unit Leader**Position Type:** Temporary**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$21.73**Annualized Pay:** \$45,198.40**Funds Codes:** 30-Health Department, 400-HD-General, 0-None**Supervisor:** Julie Gibbs**Department Head:** Julie Gibbs

BoCC Chairwoman _____

Date: _____

BoCC Member _____

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BoCC Member _____

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Company Code: 166733

Full Legal Name: Julieanne Wurtz**Status Change Date:** 02/24/2023**Status Change:** Transfer**Date of Hire:** 03/19/2001**Seniority:** 21 Years, 11 months**Position:** Appraiser III-Residential**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Salary**Base Rate:** \$31.39**Annualized Pay:** \$65,301.60**Funds Codes:** 1-County General, 22-Appraiser, 0-None**Supervisor:** Danny Williams**Department Head:** Anna Burson

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Cole Frimmel**Status Change Date:** 02/27/2023**Status Change:** New Hire**Date of Hire:** 02/17/2023**Seniority:** 0 Month(s)**Position:** Engineering Technician I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$26.98**Annualized Pay:** \$56,118.40**Funds Codes:** 1-County General, 40-Public Works, 0-None**Supervisor:** Evan McMillan**Department Head:** John Ellermann

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

RILEY COUNTY EMPLOYEE ACTION FORM

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BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

RILEY COUNTY EMPLOYEE ACTION FORM

Company Code: 166733

Full Legal Name: Riley Isbel**Status Change Date:** 02/01/2023**Status Change:** Separation**Date of Hire:** 07/21/2022**Seniority:** 6 Month(s)**Position:** Facility & Grounds Tech I**Position Type:** Regular Full Time**Pay Grade:** 166733**Pay Type:** Hourly**Base Rate:** \$18.58**Annualized Pay:** \$38,646.40**Funds Codes:** 1-County General, 40-Public Works, 81-Parks**Supervisor:** David Willis**Department Head:** John Ellermann

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____



**Board of Riley County
Commissioners
Regular Meeting
TENTATIVE Agenda
February 27, 2023**

115 North 4th Street
Manhattan, KS 66502
www.rileycountyks.gov

Cindy Kabriel
785-565-6200

Commission Chambers

8:30 AM

[District 2 – Greg McKinley, Member](#)

[District 3 – Kathryn Focke, Chair](#)

[District 1 – John Ford, Vice Chair](#)

8:30 AM

Call to Order

Pledge of Allegiance

Public Comment

Commission Comments

Business Meeting

Review Minutes

Press Conference Topics

Review Tentative Agenda

9:00 AM

Robbin Cole, Pawnee Mental Health Services Director

1. Pawnee Mental Health Services update

9:15 AM

Alvin Perez, Operations and Fleet Manager

2. Bid opening for crushed/washed limestone chips

9:30 AM

Press Conference

3. 2023 Valuation Notices - Anna Burson (3-5 minutes)
4. NACo Conference - John Ford (5 minutes)

9:40 AM

Amanda Webb, Planning/Special Projects Director

5. Comprehensive Plan update

10:10 AM

Clancy Holeman, Counselor/Director of Administrative Services

6. Administrative Work Session

10:30 AM

Gary Fike, County Extension Director

7. Riley County Fair

11:00 AM

John Ellermann, Public Works Director/County Engineer

Attachment: 02-27-23 tentative agenda (12815 : Tentative Agenda)

8. County Road Systems

12:00 PM

Intergovernmental Luncheon**Adjournment**

In order to comply with provisions of the Americans with Disabilities Act (ADA), Riley County will make reasonable efforts to accommodate the needs of persons with disabilities. Please contact the Division of Human Resources at (785) 537-6303 (voice and TTY) for assistance.

Attachment: 02-27-23 tentative agenda (12815 : Tentative Agenda)



**Board of Riley County
Commissioners
Regular Meeting
TENTATIVE Agenda
March 02, 2023**

115 North 4th Street
Manhattan, KS 66502
www.rileycountyks.gov

Cindy Kabriel
785-565-6200

Commission Chambers

8:30 AM

[District 2 – Greg McKinley, Member](#)

[District 3 – Kathryn Focke, Chair](#)

[District 1 – John Ford, Vice Chair](#)

8:30 AM

Call to Order

Pledge of Allegiance

Public Comment

Commission Comments

Business Meeting

Review Minutes

Review Tentative Agenda

Press Conference Topics

9:00 AM

John Ellermann, Public Works Director/County Engineer

1. Bid opening for North Riley County EMS Station

9:15 AM

Michael Boller, Noxious Weed Director

2. Staff update

9:30 AM

Anna Burson, Appraiser

3. Staff update

9:45 AM

Kevin Larson, Riley County Council on Aging

4. Riley County Council on Aging update

10:00 AM

Amanda Webb, Planning/Special Projects Director

5. Staff update

10:15 AM

Clancy Holeman, Counselor/Director of Administrative Services

6. Administrative Work Session

10:30 AM

Shelly Williams, Community Corrections Director

7. Staff update

Attachment: 03-02-23 tentative agenda (12815 : Tentative Agenda)

Adjournment

In order to comply with provisions of the Americans with Disabilities Act (ADA), Riley County will make reasonable efforts to accommodate the needs of persons with disabilities. Please contact the Division of Human Resources at (785) 537-6303 (voice and TTY) for assistance.

Attachment: 03-02-23 tentative agenda (12815 : Tentative Agenda)



IT/GIS
Staff Update

Cory Meyer
IT/GIS Director
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-537-6305

STAFF REPORT

FROM: Cory Meyer

MEETING: February 23, 2023

SUBJECT: IT/GIS Staff Update - February 2023

PRESENTER: Cory Meyer

Information Technology (IT)

- IT Department Staffing Update
- Assist with Zoom and BOCC meetings, emergency Website updates, etc.
- Continue to assist District Court with Wareham jury selection site, as needed.
- Completed monthly transfer of SVQs & Deeds to the State; various customer requested phone programming changes.
- Ongoing account activation/deactivation, answering of help desk calls, Komtek/AS400 backups, resolution of user issues, swap of older/replacement of failed equipment, etc.
- Countywide Internet Changes - T1 Disconnect & Redundancy Installation
- PC Rotation: Health Dept
- Security Option Research: Office Phone Paging System
- Budget Update: Review, Pricing, Quotes
- Internal and External Security Review - Email Filter
- New Public Safety Building Planning - IT Needs
- CASA Department Move
- ATABus Building Remodel
- Finalizing the MS Office 365 Migration

Geographic Information Systems (GIS)

- Sanborn Ortho flight - 3 inch and 6 inch imagery

- Damage Assessment Application for Field Collection
- Participate in NG911 road renaming committee meeting.
- Recreating the basemap “Physical Hillshade” for the next update of the GIS website
- Working with Northpoint on updates to GIS website for new esri map viewer
- Finalize planning/back-end work to supply access to Ortho Oblique imagery to non-County (ie. RCPD, KSUPD, KSU) users.
- Make monthly NG911 data submissions, and also attend State NG911 Strategic Planning yearly meeting (via Zoom).
- Ag Use Changes from 2021 Ag Survey, end of month Building Permit, Enviro. Health, and Zoning updates, etc.
- Participated in Riley County Township meeting as an available resource for GIS related/maps questions
- Updated GIS Website with latest city utility data, updated city zoning data, USD 383 Early learning boundaries, Impaired Streams-KDHE
- ImageNow System Replacement
- ESRI Major Version Upgrade Testing
- Panda Parcel Fabric Implementation

Enclosures:



IT/GIS
Travel Request

Cory Meyer
IT/GIS Director
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-537-6305

COMMISSION AGENDA REPORT

FROM: Cory Meyer
MEETING: February 23, 2023
SUBJECT: Out of State Travel Request - ESRI User Conference
PRESENTER: Cory Meyer

BACKGROUND/Discussion

Riley County IT/GIS has annually sent 1 or 2 participants to the National ESRI User Conference. The conference is 5 days long and those participating sign-up for various classes all day long for the 5 days. The conference is July 10-14, in San Diego. The last time we had anyone attend was pre-COVID so it's been several years. This year I would like to send Jacob & Sherie to the conference.

FISCAL IMPACT

The approximate cost for sending 2 participants is \$4500 which includes airfare, lodging, meals, and other transportation. The amount proposed is within the IT/GIS Budget.

RECOMMENDATION(S)

The IT/GIS Director recommends that the BOCC approve the Out of State travel for 2 GIS staff to the ESRI User Conference.

POSSIBLE MOTION(S)

Move to approve.

Move to deny.

Move to modify.

Move to table.

No action required.

The Board agreed by consensus to

Enclosures:

- Out of State Travel ESRI Request Letter 02212023 (PDF)
- Out of State Travel Request Forms ESRI 02212023 (PDF)

To: Riley County BOCC
 From: [REDACTED]

Re: 2023 Esri User Conference Proposal

I would like to have two GIS staff members attend the 2023 Esri User Conference (Esri UC), to be held July 10–14, in San Diego, California. The opportunities available at this conference can ensure that we are getting the most from our GIS investment. We can learn firsthand about new ideas and best practices in the industry, and—more importantly—they can bring this knowledge back to our organization. Previous attendance of this conference has proven to be vital to our organization.

The Esri UC is a cornerstone of the GIS community, with over 19,000 annual attendees from nearly every commercial sector, government organization, and nonprofit field. Its unique focus on user-to-user communication and collaboration encourage learning about real-life GIS experiences, best practices, and tips and tricks that will prove useful for our specific projects.

Conference attendees can choose from over 450 hours of training, including hundreds of user presentations, hands-on workshops, and chances to meet one-on-one with Esri subject matter experts. The conference also includes an Expo with vendor exhibits featuring innovative GIS solutions and special interest group meetings that will connect me with GIS users and experts from our region and industry.

With GIS becoming more powerful and accessible every year, I need to know how we can leverage its capabilities to make the most of our resources and stay ahead of the digital curve. While the topics covered at the conference are applicable to many areas of our organization, these three projects in particular would benefit from my attendance:

1. Modernize land records data management with ESRI Parcel Fabric.
2. Best Practices and Configuring ArcGIS Enterprise architecture to manage servers, data, services and security.
3. Create Organizational and Geospatial Resiliency to gain insight from new ideas and implement into workflows.

I'm looking at ways to reduce expenses through complimentary or discounted registration, special hotel and airfare rates, ride sharing, and meals with vendors. Here's an approximate breakdown of conference costs per person:

Registration: Complimentary
 Airfare: \$850
 Transportation: (round-trip taxi from airport to hotel) \$50
 Hotel: Four nights at \$250 per night
 Meals: Five days at \$63 per day
 Total: \$2,125

If GIS staff members were to attend, it would be their priority to explore practical topics and share what they learn. I plan to them submit a post conference summary, including a set of recommended actions to further our GIS work. They would also be happy to share what they learn with other staff members and departments.

Thank you for your consideration in this matter. I look forward to your reply.



RILEY COUNTY OUT OF STATE TRAVEL REQUEST/AUTHORIZATION

NAME: Jacob Galyon **DEPARTMENT:** IT/GIS
POSITION TITLE: Sr GIS Analyst **DATE REQUESTED** 2/23/2023
FUND: 001-029
Travel From: Kansas **Date:** July 10, 2023
Travel To: San Diego, CA **Date:** July 14, 2023
Purpose of Travel: Travel to and from the ESRI GIS User Conference in San Diego, CA

Mode of Travel: Common Carrier ☐ Riley County Vehicle ☐ Privately Owned Vehicle ☐
☐ Administratively determined to be to the advantage of Riley County
☐ Not to exceed the cost of common carrier including food and lodging
Mileage rate of _____

ESTIMATED COST:

Type of Expense	Description	Amount
Transportation	Airfare Round Trip	\$850
Lodging	Hotel - 4 Nights	\$1000
Meals	5 Days - \$63	\$315
Registration/Fees	Complimentary thru ESRI Agreement	
Other	Taxi, Uber	\$50

Total Estimated Travel Costs: \$2215

Requested by: Cory Meyer **Date:** 2-21-2023
Approved by: _____
Department Head: Cory Meyer **Date:** 2-21-2023
Chairman: _____ **Date:** _____
Board of County Commissioners
Attest: _____ **Date:** _____
Riley County Clerk

cc: Department Head
Department Assistant

RILEY COUNTY OUT OF STATE TRAVEL REQUEST/AUTHORIZATION

NAME: Sherie Taylor DEPARTMENT: IT/GIS

POSITION TITLE: GIS Analyst DATE REQUESTED 2/23/2023

FUND: 001-029

Travel From: Kansas Date: July 10, 2023

Travel To: San Diego, CA Date: July 14, 2023

Purpose of Travel: Travel to and from the ESRI GIS User Conference in San Diego, CA

Mode of Travel: Common Carrier ☐ Riley County Vehicle ☐ Privately Owned Vehicle ☐

☐ Administratively determined to be to the advantage of Riley County
☐ Not to exceed the cost of common carrier including food and lodging
 Mileage rate of _____

ESTIMATED COST:

Type of Expense	Description	Amount
Transportation	Airfare Round Trip	\$850
Lodging	Hotel - 4 Nights	\$1000
Meals	5 Days - \$63	\$315
Registration/Fees	Complimentary thru ESRI Agreement	
Other	Taxi, Uber	\$50

Total Estimated Travel Costs: \$2215

Requested by: Cory Meyer Date: 2-21-2023

Approved by: _____

Department Head: Cory Meyer Date: 2-21-2023

Chairman: _____ Date: _____

Board of County Commissioners

Attest: _____ Date: _____

Riley County Clerk

cc: Department Head
 Department Assistant



EMS/AMBULANCE
Staff Update

David Adams
EMS/Ambulance
Director
2011 Claflin Rd
Manhattan, KS 66502
Phone: 785-539-3535

STAFF REPORT

FROM: David Adams, EMS/Ambulance Director

MEETING: February 23, 2023

SUBJECT: EMS/Ambulance Staff Update

PRESENTER: David Adams, EMS/Ambulance Director

Operations

Calls for service.

January- 451

North County- 23

911-Call volume by station:

Medic 11 located at 2011 Claflin Rd: 155

Medic 21 located at 11th & Poyntz: 130

Medic 31 located at 3060 TCB (Riley County Public Works): 78

Medic 41 located at Manhattan Regional Airport: 77

Medic 51- ALS First Response in Leonardville: 17

The rest of the calls (if applicable) are for event standbys and supervisors writing reports.

Working on new building construction related topics.

Both Expeditions have arrived, first is on line, second is at radio shops.

Federal Cost Reporting is being finalized, working on compiling the data for submission.

Hiring Process for our full time opening and hopefully a couple of open PRN positions.

Updated: 2/21/2023 11:24 AM by David Adams

Page 1

Packet Pg. 74

Staff Report (ID # 13190)

Meeting of February 23, 2023

Providing testimony assistance on some EMS specific legislation on behalf of Kansas EMS Association.

Education

100% review of all calls.

Mandatory staff training on new/updated SOG/SOP was well received. Following up by meeting with crews.

Preparing for active violence training in April with KSU PD.

Teaching Pediatric Advanced Life Support class with Junction City Fire/EMS

Conducted training with Riley County Fire Dist. #1 on active violence.

Community Outreach:

Car seat check lanes

CPR Classes

Enclosures:

- EOM-Report-with-Pick-List Jan. 2023 (PDF)

Runs By Day of Week

Incident Day Of Week Number And Name	Number of Runs	percent of total
01 - Sunday	79	17.52
02 - Monday	61	13.53
03 - Tuesday	76	16.85
04 - Wednesday	57	12.64
05 - Thursday	57	12.64
06 - Friday	70	15.52
07 - Saturday	51	11.31
Total: 451		Total: 100.00

Attachment: EOM-Report-with-Pick-List Jan. 2023 (13190 : Staff Update)

Runs by Hour of Day

Incident Hour Range Of Day 24	Number of Runs	Percent of Total Runs
00:00:00 - 00:59:59	13	2.88%
01:00:00 - 01:59:59	14	3.10%
02:00:00 - 02:59:59	21	4.66%
03:00:00 - 03:59:59	13	2.88%
04:00:00 - 04:59:59	6	1.33%
05:00:00 - 05:59:59	11	2.44%
06:00:00 - 06:59:59	9	2.00%
07:00:00 - 07:59:59	22	4.88%
08:00:00 - 08:59:59	19	4.21%
09:00:00 - 09:59:59	24	5.32%
10:00:00 - 10:59:59	26	5.76%
11:00:00 - 11:59:59	30	6.65%
12:00:00 - 12:59:59	26	5.76%
13:00:00 - 13:59:59	19	4.21%
14:00:00 - 14:59:59	27	5.99%
15:00:00 - 15:59:59	18	3.99%
16:00:00 - 16:59:59	18	3.99%
17:00:00 - 17:59:59	18	3.99%
18:00:00 - 18:59:59	28	6.21%
19:00:00 - 19:59:59	17	3.77%
20:00:00 - 20:59:59	29	6.43%
21:00:00 - 21:59:59	19	4.21%
22:00:00 - 22:59:59	14	3.10%
23:00:00 - 23:59:59	10	2.22%
Total: 451		Total: 100.00%

Attachment: EOM-Report-with-Pick-List Jan. 2023 (13190 : Staff Update)

Runs by Responding Unit

24.a

Response EMS Unit Call Sign (eResponse.14)	Number of Runs	Percent of Total Runs
MED11	155	34.37%
MED21	130	28.82
MED31	78	17.29
MED41	77	17.07
MED12	9	2.00
	1	0.22
MED13	1	0.22
Total: 451		Total: 100.00

Report Criteria

Incident Month Name - Year: Is In January 2023

Attachment: EOM-Report-with-Pick-List Jan. 2023 (13190 : Staff Update)



COUNTY CLERK & ELECTIONS
Staff Update

Rich Vargo
County Clerk
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-565-6200

STAFF REPORT

FROM: Vivienne Leyva
MEETING: February 23, 2023
SUBJECT: Communications Update for February 2023
PRESENTER: Vivienne Leyva Public Information Officer

Social Media

Social media is still a valuable communication tool but not our most effective for reaching the public. Some changes to the platforms and verification processes will impact our accounts, especially the new requirement to pay for verification on Twitter, Facebook, and Instagram. Our followers continue to grow and the attached chart provides a snapshot.

We've had some success sharing job opportunity information when we have open positions that require specific skill sets or when we don't receive many applications, and I plan to continue that practice working closely with HR and hiring managers to meet their needs.

Emergency Messaging

I attended a two-day training session with Emergency Management Staff about messaging for alerts and warnings. Everbridge will continue to be our primary means of communicating emergency warnings.

Traditional Media

We continue to have the greatest success reaching the public by working with local media. Recently Gary Fike with Extension joined me for the monthly morning spot with KSNT and we have plans to They are interested in having elected officials on the program as well if any of you are interested in joining me for the early morning drive. We leave here at 5AM for a 6:15 timeslot live on the air. We have also been invited back to the live afternoon program on WIBW.

Paid Advertising

I'm working with the health department to use paid advertising to recruit volunteers for the Medical Reserve Corps. We plan to use a variety of local media and social media outlets to share that information. So far, the K-State community has been very responsive, and a few student groups have reached out to Skylar to ask about the program. She was interviewed by WIBW as well as the campus radio, Wildcat 91.9, and several local outlets shared the news release.

Plans for the future

- Continued education about Everbridge emergency notification tools.
- Seek additional training opportunities
- Crisis Communications planning with Emergency Management and PIO groups
- Hosting training for employees
 - RCHD media training this week

Enclosures:

- Social Media Account Stats(PDF)

Riley County Social Media Accounts

Facebook	Jan-22	Feb-23
Riley County, KS	2,300	2,916
EMS		3,593
Emergency Management		3,549
Health Department		12,598
Historical Museum		1,243
RCFD#1		3,038
You Know You are From Manhattan If...		21,000

Twitter	Jan-22	Feb-23
Riley County	171	402
Emergency Management		1,057
EMS		38
Health Department		1,247
RCFD#1		616

Instagram	1-Jan	Feb-23
Riley County	256	501
Health Department		197
Historical Museum		164
RCFD#1		177

Nextdoor	2022	2023
	n/a	12,590



COUNTY CLERK & ELECTIONS
Presentation

Rich Vargo
County Clerk
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-565-6200

COMMISSION AGENDA REPORT

FROM: Darell Edie, Budget & Finance Officer

MEETING: February 23, 2023

SUBJECT: High Point Road G.O. Temporary Note Resolution No. 022323-

PRESENTER: Darell Edie, Budget & Finance Officer

POSSIBLE MOTION(S)

Move to approve

Move to deny

Move to approve "Resolution No. 022323-___, A Resolution authorizing the issuance of the County's General Obligation Bonds, Series A 2023 in the principal amount of \$161,000 specifying the terms and details of the Bonds and providing for the levy and collection of special assessments or general taxes to pay the principal of and interest on the bonds when due.

Enclosures:

- High Point Road Funding Resolution (PDF)

TRIPLETT WOOLF GARRETSON, LLC

RESOLUTION NO. 022323-__

OF

RILEY COUNTY, KANSAS

FEBRUARY 23, 2023

Attachment: High Point Road Funding Resolution (13192 : G.O. Resolution NO. 022323-)

RESOLUTION NO. 022323-__

A RESOLUTION AUTHORIZING THE ISSUANCE OF GENERAL OBLIGATION TEMPORARY NOTES OF RILEY COUNTY, KANSAS, IN THE TOTAL PRINCIPAL AMOUNT OF \$161,000 TO PROVIDE FUNDS FOR THE TEMPORARY FINANCING OF THE COSTS OF CERTAIN PROJECTS AS AUTHORIZED BY THE COUNTY; AND SETTING FORTH TERMS, DETAILS, FORM AND CONDITIONS OF THE GENERAL OBLIGATION TEMPORARY NOTES.

WHEREAS, Riley County, Kansas (the “County”) is a political subdivision, created, organized and existing under the laws of the state of Kansas (“State”); and

WHEREAS, pursuant to Charter Resolution No. 9 of the County and K.S.A. 68-728 (together, the “Act”), the governing body of the County has authorized creation of High Plains Ranch Road Benefit District to provide for the paving and improvement of High Plains Ranch Road (the “Project”); and

WHEREAS, pursuant to the Act, the governing body of the County is authorized to pay certain Project costs by issuing general obligation bonds of the County; and

WHEREAS, pursuant to K.S.A. 10-123, the governing body of the County is authorized to issue general obligation temporary notes in anticipation of the issuance of general obligation bonds.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF RILEY COUNTY, KANSAS:

SECTION 1. Authority for the Notes; Security. The County’s General Obligation Temporary Notes, Series 2023, in the principal amount of \$161,000 and dated March 15, 2023 (“Notes”) are authorized and directed to be issued to temporarily finance the costs of the Project (as defined above). The County will comply with the provisions, requirements, and restrictions of K.S.A. 10-101 *et seq.*, as amended and supplemented, including specifically K.S.A. 10-123, as amended with respect to issuance, registration, and delivery of the Notes.

The full faith, credit and resources of the County are pledged to secure the payment of the principal of and interest on the Notes as and when the same become due and payable in accordance with the terms of the Notes. The Notes are general obligations of the County payable from the proceeds of general obligation bonds of the County issued to permanently finance the Project, from special assessments levied upon property specially benefited by the Project, and/or from current revenues of the County available for such purpose. If not so paid, the Notes are payable from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property in the County.

SECTION 2. Details of the Notes; Payment of Principal and Interest. The Notes are dated March 15, 2023, and will mature September 15, 2024, unless redeemed earlier as authorized by this Resolution.

The Notes shall be issued as fully registered certificated securities and shall be numbered R-1 upwards, in the minimum denomination of \$100,000 and integral multiples of \$1,000 in excess thereof (the “Authorized Denominations”). The Notes shall bear interest from their dated date (computed on the basis of a 360-day year of twelve 30-day months) at the rate of 5.39% per annum; with such interest payable on the maturity date of the Notes or on the date of redemption prior to the maturity date, as described herein.

The principal amount of Notes shall be payable to the registered owner in lawful money of the United States of America by check or draft of the Treasurer of the State of Kansas (the “Paying Agent” and “Note Registrar”) upon the presentation of the Notes for payment and cancellation at the Paying Agent’s principal office in the city of Topeka, Kansas.

Interest shall be paid in lawful money of the United States of America, by check or draft of the Paying Agent (designated in this Resolution), addressed to the Owners of the Notes as shown on the Registration Books (as defined below) as of the fifteenth (15th) day of the month prior to the Interest Payment Date (the “Record Date”), or at such other address as is furnished to the Paying Agent in writing by an Owner.

In any case where a Note payment date occurs on a Saturday, Sunday or any day designated as a holiday by the Congress of the United States or by the legislature of the State and on which the Paying Agent is not scheduled to be open in the normal course of its operations, then the payment of such principal, premium or interest may be made on the next succeeding business day with the same force and effect as if made on the scheduled payment date, and no interest shall accrue for the period after such scheduled payment date.

The Paying Agent shall maintain Registration Books for the ownership of the Notes on behalf of the County; and the Paying Agent will make payment for the Notes directly to the registered owners of the Notes as shown by said Registration Books, in the manner set forth in this Section 2.

SECTION 3. Optional Prepayment/Redemption of Notes. The Notes may be prepaid and called for redemption at the County’s option, in whole or in part, on July 15, 2023, or on any date thereafter, at a redemption price of the principal amount thereof plus the accrued and unpaid interest to the date of redemption. If the County elects to prepay the Notes, the County shall give written notice to the Paying Agent not less than forty-five (45) days prior to the date selected for redemption of the Notes and shall direct the Paying Agent to give written notice of redemption to the Owners of the Notes, to be mailed by United States first class mail not less than 30 days before the redemption date. The County shall also give such additional notice of its election to prepay the Notes as may be required by the laws of the State in effect at the time, including K.S.A. 10-129, to the extent applicable. If the County elects to prepay the Notes and provides for giving notice as described above and for the payment in full on the redemption date of the principal amount of and all accrued and unpaid interest thereon, interest on the Notes shall cease to accrue

from and after the selected redemption date and, thereafter the Notes shall no longer be entitled to the protection, benefits, and security of this Resolution.

At the option of the County, a notice of optional redemption may be made conditional upon moneys being on deposit with the Paying Agent on or prior to the redemption date in an amount sufficient to pay the redemption price on the redemption date. If such notice is conditional and moneys are not received, such notice shall be of no force and effect and the Notes so called for redemption shall be redeemed.

SECTION 4. Designation of Paying Agent and Note Registrar; Agreement. Pursuant to K.S.A. 10-620 *et seq.*, the governing body elects to have the provisions of the Kansas Bond Registration Law apply to the Notes and designates and appoints the Treasurer of the State of Kansas, Topeka, Kansas, as the Note Registrar and Paying Agent for the Notes. The terms, conditions, and provisions under which the State Treasurer will perform duties as Note Registrar and Paying Agent for the Notes are set forth in an “Agreement between Issuer and Agent”, dated as of March 15, 2023 (the “Agreement”). The form and text of the Agreement as submitted with this Resolution is approved and accepted by the governing body and the Chair and County Clerk are authorized to execute and deliver the Agreement for and on behalf of the County. The text of the Agreement is incorporated here by this reference.

SECTION 5. Form of Notes. The Notes shall be in the usual and customary form and shall contain recitals as required by law, including a recital that they are issued under the authority of K.S.A. 10-123, as amended and supplemented, and the Act. The County’s Bond Counsel, Triplett Woolf Garretson, LLC, is authorized and directed to prepare the form and text of the certificates for the Notes, and to cause the same to be printed as the definitive certificates for the Notes.

SECTION 6. Registration of Ownership, Transfer and Exchange of Certificated Notes. Pursuant to the Agreement, the Note Registrar shall maintain books for the recording of the initial registration and any subsequent transfers of the ownership of the Notes (the “Registration Books”) and the person(s) in whose name any Notes are registered as shown on the Registration Books shall be deemed and regarded as the absolute Owner thereof for all purposes (the “Owner”). Payment of, or on account of the principal of and the interest on any Notes shall be made only to or upon the order of the Owner or his duly authorized agent. All such payments shall be valid and effectual to satisfy and discharge the liability upon such Notes, including the interest thereon, to the extent of the sum or sums so paid.

The provisions, terms and conditions and requirements for the transfer and exchange of the Notes and for the replacement of a mutilated, lost, stolen or destroyed Note shall be governed by the Agreement and applicable State and Federal law. Replacement certificates delivered upon any transfer or exchange made in compliance with the provisions, terms, conditions, and requirements set forth in the Agreement shall be valid obligations of the County, evidencing the same debt as the certificated Note surrendered, shall be secured by the pledges made in this Resolution and shall be entitled to all of the security and benefits hereof to the same extent as the certificated Note surrendered.

SECTION 7. Execution of the Notes. The Notes shall be executed by the manual signature of the Chair, with an impression of the County's official seal, and shall be attested by the manual signature of the County Clerk; and when so executed, the Notes shall be registered in the office of the County Clerk and in the office of the Treasurer of the State of Kansas as required by law. After registration in the office of the State Treasurer, the Notes shall be countersigned by the manual signature of the County Clerk, attested by the County's official seal. In case any officer of the County or of the State whose signature shall appear on the Notes shall cease to be such officer before the actual delivery of the Notes, such signature shall nevertheless be valid and sufficient for all purposes, the same as if such officer had remained in office until such delivery.

No Notes shall be valid or obligatory for any purpose unless and until the Certificate of Authentication on the Notes is duly executed by the Note Registrar and such duly executed Certificate of Authentication on any Note shall be conclusive evidence that it has been authenticated and delivered under this Resolution. The Certificate of Authentication on any Note is duly executed by the Note Registrar when manually signed by an authorized officer or signatory thereof, and it shall not be necessary that the same officer or signatory of the Note Registrar manually sign the Certificate of Authentication on all of the Notes issued under this Resolution.

SECTION 8. Payment of Costs. The County shall pay out of the proceeds of the Notes all costs incurred in connection with the issuance, transfer, exchange, registration, redemption, and payment of the Notes except (a) the reasonable fees and expenses of replacing a Note or Notes mutilated, stolen, lost, or destroyed, or (b) any tax or governmental charge imposed in relation to the transfer, exchange, registration, redemption, or payment of the Notes, including expense, if any, relating to qualifying the Notes for transfer or exchange under any applicable provisions of State or Federal law.

SECTION 9. Creation of Funds and Accounts, Use of Funds. Simultaneously with the issuance of the Notes the following funds and accounts are created in the treasury of the County:

- (A) Project Fund for Riley County, Kansas General Obligation Temporary Notes, Series 2023 (the "Project Fund"); and
- (B) Principal and Interest Account for the Riley County, Kansas General Obligation Temporary Notes, Series 2023 (the "Series 2023 Notes Principal and Interest Account")

The Project Fund and Series 2023 Notes Principal and Interest Account shall be administered and maintained for the purpose of depositing moneys received in connection with the issuance, sale, and delivery of the Notes. Moneys in the Project Fund shall be used to pay or reimburse costs associated with Project, as well as any applicable costs of issuance associated with (i) the issuance of the Notes or (ii) any general obligation bonds ultimately issued to retire such Notes. Amounts remaining in the Project Fund after payment of such costs may be transferred to the Principal and Interest Account and applied to payment of principal of, or interest on the Notes. Moneys deposited in the Principal and Interest Account shall be applied to the payment of principal of, or interest on the Notes as the same may become due. The Series 2023 Notes Principal and Interest Account may be created as a subaccount of the County's Bond and Interest Fund.

SECTION 10. Delivery of Notes; Disposition of Proceeds. The Chair and County Clerk are authorized and directed to prepare and execute the Note in the form and manner specified in this Resolution, including a reasonable inventory quantity of Note certificates for transfer, exchange and replacement in accordance with the provisions of this Resolution, and to cause the registration and countersignature of the Notes, all without unnecessary delay. The Notes have been sold to KS StateBank, Manhattan, Kansas, (the “Original Purchaser”), and shall be delivered to the Original Purchaser upon receipt by the County of the full purchase price of the Notes.

The proceeds from the sale of the Notes shall be deposited into the Treasury of the County for the credit of the funds and accounts created by Section 9 hereof, and shall be applied as follows:

(A) The amount of the proceeds of the Notes representing accrued interest on the Notes, if any, (none is anticipated) shall be credited to the Series 2023 Notes Principal and Interest Account and shall be set aside to be used toward payment of the interest on the Notes; and

(A) \$161,000 of the proceeds of the Notes shall be credited to the Project Fund.

SECTION 11. Sale of the Notes; Authority to Enter into Purchase Agreement. The Notes shall be sold to the Original Purchaser at a purchase price equal to the principal amount of the Notes, plus accrued interest from their dated date to the date of delivery of the Notes, if any. If requested by the Original Purchaser, the Chair and County Clerk are authorized and directed to execute a Purchase Agreement on behalf of the County with the Original Purchaser, such Purchase Agreement to be in such final form as may be agreed upon by the governing body and the Original Purchaser.

SECTION 12. Resolution Constitutes Contract, Remedies of Owner. The provisions of this Resolution, and all of the covenants and agreements here contained, shall constitute a contract between the County and the holders of the Notes (herein referred to as the “Owner”), and the Owner shall have the right:

(A) By mandamus or other suit, action or proceeding at law or in equity to enforce its rights against the County and its officers, agents and employees, and to require and compel the County and its officers, agents and employees to perform all duties and obligations required by the provisions of this Resolution or by the Constitution and laws of the State of Kansas,

(B) By suit, action, or other proceeding in equity or at law to require the County, its officers, agents, and employees to account as if they were the trustees of an express trust, and

(C) By suit, action or other proceeding in equity or at law to enjoin any acts or things which may be unlawful or in violation of the rights of the Owner.

SECTION 13. Limitation on Actions by Owner; Remedies Cumulative; Delay or Omission Not Waiver. The Owner secured by this Resolution and the Notes shall have no right in any manner whatsoever by its action to affect, disturb or prejudice the security granted and provided for herein, or to enforce any right hereunder, except in the manner herein provided, and all proceedings at law or in equity shall be instituted, had and maintained for the benefit of the Owners of the Notes. Nothing in this Resolution or in the Notes shall affect or impair the obligations of the County to pay at the date of maturity thereof or on any prepayment date established therefor, the principal of and the interest on the Notes to the Owner thereof or affect or impair the right of action of the Owner to enforce payment of the Notes held by it, or to reduce to judgment its claim against the County for payment of the principal and interest on the Notes. No remedy herein conferred upon the Owner is intended to be exclusive of any other remedy or remedies, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute and may be exercised without exhausting and without regard to any other remedy however given. No delay or omission of the Owner to exercise any right or power accruing hereunder shall be construed as acquiescence in default, and every right, power and remedy given by this Resolution to the Owner, may be exercised from time to time and as often as may be deemed expedient. In case any proceeding taken by the Owner on account of any default shall have been discontinued or abandoned for any reason, or shall have been determined adversely to the Owner, then in every such case the County and the Owner shall be restored to its former position and right hereunder, and all rights remedies, powers and duties of the Owner shall continue as though no such proceedings had been taken.

SECTION 14. Amendments. The County may, without the consent of the Owners, amend or supplement the provisions of this Resolution (i) to cure any ambiguity herein or to correct or supplement any provision herein which may be inconsistent with any other provision herein or to correct errors, provided such action does not have a material adverse affect on the interests of the Owner, or (ii) to grant or confer upon the Owner any additional rights, remedies, powers or security, or (iii) to more precisely identify the Project or (iv) to conform this Resolution to the Code (as defined in Section 15 hereof) or future applicable Federal laws concerning tax-exempt obligations. The rights and duties of the County and the Owners and the terms and provisions of this Resolution may be modified or altered in any respect by a resolution of the County with the consent of 66.66% of the Owners, such consent to be evidenced by an instrument or instruments executed by the Owners and duly acknowledged or proved in the manner of a deed to be recorded, and such instrument or instruments shall be filed with the County Clerk; provided that, the following modifications or alterations shall require the written consent of 100% of the Owners of Notes:

- (A) Extension of the maturity of any payment of principal or interest due upon the Notes, or
- (B) A reduction in the amount which the County is required to pay by way of principal or interest on the Notes.

Any and all modifications made as provided above shall not become effective until a copy of the resolution of the County authorizing said modifications, duly certified, as well as proof of consent to such modification by the required percentage of Owners is filed with the County Clerk.

It shall not be necessary to note on the outstanding Notes any reference to such amendment or modification.

SECTION 15. Tax Covenants. The governing body of the County covenants that so long as the Notes remain outstanding and unpaid, it will not use or permit the use (to the extent within its power and control) of the proceeds thereof which, if such use had been reasonably expected on the date of issuance and delivery, would have caused the Notes to be “arbitrage bonds” within the meaning of Section 103(b)(2) of the Internal Revenue Code of 1986, as amended (the “Code”); and that it will comply with all applicable requirements of Section 148 of the Code and Rules and Regulations of the United States Treasury Department issued thereunder for so long as the Notes remain outstanding and unpaid. The governing body further covenants to take all such action in its power as may be required from time to time in order to assure the exclusion from gross income for purposes of Federal income taxation of the interest on the Notes, and to comply with all provisions of the Code, as the same be amended, and any applicable Rules and Regulations of the United States Treasury Department thereunder.

SECTION 16. Qualified Tax-Exempt Obligations. The governing body of the County designates the Notes as “qualified tax-exempt obligations” as defined in Section 265(b)(3) of the Code.

SECTION 17. Severability. If any section, paragraph, clause, or provision of this Resolution is, for any reason, held invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause, or provision shall not affect any remaining provisions of this Resolution.

SECTION 18. Effective Date. This Resolution shall be in force and take effect from and after its adoption and approval.

[Remainder of Page Intentionally Left Blank]

ADOPTED AND APPROVED by the governing body of the City of Riley County, Kansas,
on February 23, 2023.

BOARD OF COUNTY COMMISSIONERS,
RILEY COUNTY, KANSAS

By _____
Kathryn Focke, Chair

[seal]

By _____
John Ford, Vice Chair

By _____
Greg McKinley, Member

ATTEST:

By _____
Rich Vargo, County Clerk

Attachment: High Point Road Funding Resolution (13192 : G.O. Resolution NO. 022323-)

EXCERPT OF MINUTES

The Board of County Commissioners of Riley County, Kansas, met in regular session at the usual meeting place in the County on February 23, 2023, at 8:30 A.M., with the Chair Kathryn Focke, presiding and the following members present:

The following members were absent:

Among other business, there came on for consideration and discussion the following:

A RESOLUTION AUTHORIZING THE ISSUANCE OF GENERAL OBLIGATION TEMPORARY NOTES OF RILEY COUNTY, KANSAS, IN THE TOTAL PRINCIPAL AMOUNT OF \$161,000 TO PROVIDE FUNDS FOR THE TEMPORARY FINANCING OF THE COSTS OF CERTAIN PROJECTS AS AUTHORIZED BY THE COUNTY; AND SETTING FORTH TERMS, DETAILS, FORM AND CONDITIONS OF THE GENERAL OBLIGATION TEMPORARY NOTES.

After discussion, upon motion by _____, seconded by _____, the Resolution was passed by a vote of the majority of the members elect.

The Resolution was designated Resolution No. 022323-__.

Attachment: High Point Road Funding Resolution (13192 : G.O. Resolution NO. 022323-)

COUNTY CLERK'S
CERTIFICATION OF EXCERPT OF MINUTES

I certify that the foregoing is a true and correct Excerpt of Minutes of the February 23, 2023, meeting of the Board of County Commissioners of Riley County, Kansas.

[seal]

Rich Vargo, County Clerk

Attachment: High Point Road Funding Resolution (13192 : G.O. Resolution NO. 022323-)



PLANNING & DEVELOPMENT
Personnel

Amanda Webb
Planning/Special Projects
Director
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-537-6332

COMMISSION AGENDA REPORT

FROM: Amanda Webb, Planning Director

MEETING: February 23, 2023

SUBJECT: Request to refill Environmental Health Specialist position

PRESENTER: Amanda Webb, Planning Director

BACKGROUND

The Environmental Health Specialist (EHS) position will become vacant on March 13, 2023. I am requesting to immediately advertise to refill this position as it is vital to the Planning & Development Department's functions.

DISCUSSION

This position is necessary for the continued review and permitting of many projects within the county. The EHS inspects, permits, and monitors private wastewater systems and private wells, performs water testing, and assists the public with environmental health related questions and issues. Without this position, we would be limited in building and land use permits we can issue as many have a private wastewater system and/or private well component to them. Further, this position is involved with all private wastewater system repairs. Please see attached updated position description for a complete list of job functions and required education/experience.

Because of the necessity of this position, I am also requesting to utilize contract services during the period without a permanent EHS.

FISCAL IMPACT

This position is already included in the department budget. Any contract services provided

during the gap in permanent placement can be covered by the current budget.

RECOMMENDATION

Staff recommends the BOCC approve the immediate advertising to refill the Environmental Health Specialist position. Staff further recommends the BOCC allow contract services during the gap in permanent placement.

POSSIBLE MOTION(S)

Move to approve the refilling of the EHS position as well as allow for contract services during the period between permanent placement.

Move to approve the refilling of the EHS position but deny the use of contract services during the period between permanent placement.

Enclosures:

- 2-2023 PD Environmental Health Specialist PAF (PDF)
- Environment Health Specialist Position Description (PDF)

RILEY COUNTY POSITION ACTION FORM

Job Created By

Amanda Webb

Posted on Career Page

County of Riley

Internal Position Details (not displayed on job posting)

Company

Riley County, KS

Job ID

1369744

Pay Grade

16

Cost Center 1

County General [1]

1 Job Slot

Full Time

Position Template

Environmental Health Specialist

Salary

Starting pay \$2,440.80 per period

EEO Class

--

Cost Center 2

Planning & Development

Work Location

Office Building

Supervisor Position

No

Workers Compensation

--

Cost Center 3

--

Supervisor:

Department Head:

☐ No changes to Position or Budget☒ Position Description attachedTotal annual hours 2080☐ Budgeted☒ New or updated position description☐ New request for budget (details attached)

Salary: \$63,460.80

Budget for Benefits: \$25,067.02

Total proposed annual budget: \$88,527.82

Additional Position Comments: _____

BoCC Chairwoman _____

Date: _____

BoCC Member _____

Date: _____

BoCC Member _____

Date: _____

Original document stored in Human Resources

Revised 2023-01

RILEY COUNTY, KANSAS JOB DESCRIPTION

Job Title:	ENVIRONMENTAL HEALTH SPECIALIST		
Department:	Planning & Development	Division:	
Reports To:	Director of Planning & Development		
Pay Range:	16	Status:	Full Time
FLSA Status:	Exempt		

Position Summary: The Environmental Health Specialist promotes the environmental health of Riley County through the enforcement of the Sanitary Code, provides education to the public regarding environmental health programs/regulations, and by provides inspection and technical assistance services for water and wastewater systems.

ESSENTIAL FUNCTIONS:

Water

- Conducts field inspections and writes reports regarding private water supplies (e.g. inspects sites for drilling, evaluates wellhead construction, and promotes the wellhead protection program.)
- Issues permits for all water wells and verifies submission of well plugging reports to the state.
- Conducts laboratory testing of well water for Nitrates, Coliform Bacteria, Fluoride, Hardness, Alkalinity, Sulfates, Iron, Chlorides, and Free Cl₂.
- Assists public with questions regarding water softening, water remediation, UV treatment, chlorination, reverse osmosis, and proper protocols for removal of toxic materials from water wells.
- Monitors bacteria and nitrate testing on Type II water supplies, Agritourism and Short-Term Rental well sites.

Wastewater

- Conducts field inspections and writes reports regarding private wastewater disposal systems (e.g., evaluates proposed sites, conducts soil profile tests, and designs repair of existing systems).
- Composes training manual/materials and conducts training for installers and septage haulers.
- Issues system installation/new construction permits, and repair permits for wastewater systems.
- Conducts inspections of active alternative private wastewater disposal systems and maintains a database for each system.

General

- Answers requests for assistance and investigates environmental health complaints.
- Maintains knowledge of and enforces the provisions of the Riley County Sanitary Code.
- Obtains grants to support program and submits paperwork per grant requirements.
- Educates the public regarding environmental health issues through presentations, website information, media releases or other appropriate means.
- Conducts school inspections.
- Conducts kennel inspections.
- Conducts and assists the Riley County Health Officer with public health complaints.

SECONDARY FUNCTIONS:

- Assists Health Officer with other duties as directed.
- Assists Emergency Management in emergency response as directed.
- Performs other duties as assigned.

Position Requirements:

Education: Bachelor's degree from an accredited college or university in natural science,

Updated 2023

Attachment: Environment Health Specialist Position Description (13184 : Request to refill EHS position)

environmental health or public health with at least 45 credit hours of classroom and laboratory coursework in math, biology, microbiology, geology, chemistry, environmental engineering and physics.

License(s)/Certification(s): Registered Environmental Health Specialist/Registered Sanitarian (REHS/RS) certification from the National Environmental Health Association or ability to obtain REHS/RS certification within 6 one (1) year months of employment. Valid driver's license is required.

Knowledge and Experience: Advanced knowledge of the principles and techniques of environmental health, and the regulations and standards that apply. Knowledge of on-site water supply and on-site wastewater treatment methodology. Knowledge of groundwater flow and patterns. Knowledge of the principles of business letter writing and basic report preparation, including the use of the English language, spelling, grammar and punctuation. Minimum one year experience working with environmental health regulations or related experience required. Experience in conducting environmental inspections required. Two (2) years' experience with private water and wastewater system regulation preferred. Experience working in local government preferred. Advanced training in the inspection and operation of various types of alternative wastewater systems preferred.

Skills: Competent organizational skills and the ability to work effectively with the public, other agencies, and other county staff. Ability to assess situations and make decisions independent of supervision. Ability to multi-task and resolve problems in a timely manner. Ability to communicate effectively both orally and in writing. Skill in the use of a personal computer and related software. Ability to locate property, read maps and read legal descriptions. Ability to walk and stand for extended periods of time on uneven terrain and in various weather conditions. Ability to recognize and respond appropriately to potential physical threats in the field, e.g. snakes and other animal bites, poison ivy. Ability to follow protocols and established regulations.



PLANNING & DEVELOPMENT
Work Session

Amanda Webb
Planning/Special Projects
Director
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-537-6332

COMMISSION AGENDA REPORT

FROM: Amanda Webb, Planning Director

MEETING: February 23, 2023

SUBJECT: Planning & Development Department fee schedule review

PRESENTER: Amanda Webb, Planning Director

Planning & Development's fee schedule was last fully reviewed in 2012. This review gathered the complete picture of costs for each application/permit/license existing in 2012: staff time (including an administrative fee for the director's oversight), mailing costs, publishing costs, recording costs, and mileage/gas. Most fees were increased in 2012 based on that information. With the exception of several new processes (permits/licenses) added since that time, the only fees that have changed since 2012 are the *removal* of the \$75 fee for minor wastewater repairs and the increase from \$8 to \$9 for bacteria water testing. All other fees that existed in 2012 are the same.

The current review of fees includes all factors that were studied in 2012. Though staff time hasn't changed much since 2012, the cost of doing business has increased. Mailing/postage costs, publishing costs, recording costs, and mileage/gas have all risen. I am not proposing that the applicant bear the brunt of these increases, but a review of the fee schedule is necessary to help offset some of the county's increased costs.

Over the last month, staff has held several work sessions with the BOCC reviewing each fee category including environmental health, licensing, building, and land use. Attached is the proposed layout for Planning & Development's full fee schedule. Also attached is the current layout for comparison. The idea behind the updated layout is to make the document transparent, user friendly, and easy to interpret both for the public as well as staff. Also included on the proposed layout document are the new or changed fees that we've spoken about during the work sessions.

A reminder that there are no proposed changes for building/floodplain/sign permits. The updated

layout simply clearly indicates that there is an additional fee for projects started before obtaining a permit ("after-the-fact" permits). For land use fees, the new Administrative Adjustment and Exception petitions will be assigned a fee of \$100. Any petitions that require newspaper notification will be assessed an additional \$50 and any petitions that require resolution publication will be assessed an additional \$50. The fee for Type 3 Special Event permits is not new; it is simply more clearly indicated that it will go through a conditional use process which is \$400. For license fees, we have split the fee for initial and renewal excavation licenses to match the Agritoursim and STR licenses. We have also added a separate fee for initial and renewal Alternative System Installer licensing. Lastly, we amended the fees for wastewater repair permits to assess a \$50 fee for minor repairs and a \$100 fee for major repairs. **We discussed an increase in both initial and renewal Mobile Home Park license fees as well as a potential fee for our portion of Daycare licensing. These are both shown on the proposed layout, but further discussion may still be necessary as there was concern particularly for added Daycare licensing fees.**

Enclosures:

- Proposed layout (PDF)
- Current P&D Fee schedule (PDF)
- Fee schedule history (PDF)

Proposed Layout – current & proposed fees

Building/Floodplain	Current	Proposed
Residential Principal Structure	\$150	
After the fact	\$300	
Commercial/Industrial Principal Structure	\$225	
After the fact	\$450	
Residential Addition/Accessory Structure	\$150	
After the fact	\$300	
Commercial/Industrial Addition/Accessory Structure	\$225	
After the fact	\$450	
Floodplain Development Permit	\$75	
With Base Flood Elevation	\$100	
Sign	\$50	
Land Use		
Administrative Adjustment		\$100
Boundary Line Adjustment	\$100	
Lot Split	\$100	
Conditional Use	\$400	
Exception		\$100
Planned Unit Development (PUD)	\$200	
Platting		
4 lots or less	\$350	
5 lots or more	\$450	
With rezoning	\$550	
Replat	\$200	
Residential Use Designator	\$200	
With plat	\$350	
Rezoning	\$450	
Road Name Change	\$100	
Special Use	\$400	
Variance	\$300	
Zoning Appeal	\$200	
Special Event		
Type 1 and 2	\$100	
Type 3, Conditional Use permit	\$400	
Text amendment	\$125	
Easement Vacation	\$300	
*All land use petitions requiring public hearing newspaper publication are assessed an additional \$50 *All land use petitions requiring resolution newspaper publication are assessed an additional \$50		
Licenses		
Agritourism (initial)	\$200	
Agritourism (renewal)	\$100	
Short Term Rental (initial)	\$200	

Short Term Rental (renewal)	\$100	
Excavation (initial and renewal)	\$150	\$200
Excavation (renewal)		\$100
Mobile Home Park (initial and renewal)	\$300 (max) \$5 per lot	\$150 + \$5 per unit over 50 units
Mobile Home Park (renewal)		\$75 + \$5 per unit over 50 units (\$500 max)
Septic Hauler (initial)	\$150	
Septic Hauler (renewal)	\$50	
Standard System Installer (initial)	\$150	
Standard System Installer (renewal)	\$50	
Alternative System Installer (initial)		\$150
Alternative System Installer (renewal)		\$50
Environmental Health		
Site Evaluation		
No profile	\$50	
Profile	\$150	
New Private Septic permit	\$150	
Lagoon permit	\$300	
Private wastewater disposal system repair permit		
Minor	N/C	\$50
Major	\$75	\$100
Environmental Systems Evaluation (for sale of property)		
Revisit	\$100 \$50	
Alternative System permit	\$300	
Inspection of alternative private wastewater disposal system		
Reinspection	\$100 \$75	
Water well permit	\$75	
Mobile home park wastewater permit	\$100	
Daycare Inspection		\$50
Other		
Water testing		
Coliform Test	\$9	
Nitrate Test	\$2	
Iron Test	\$2	
Fluoride Test	\$5	
Hardness Test	\$2	
Alkalinity Test	\$2	
Chloride Test	\$2	
Chlorine Test	\$2	

Sulfate Test	\$2	
PH Test	\$2	

RESOLUTION NO. 121321-55

**A RESOLUTION ESTABLISHING PLANNING AND DEVELOPMENT FEES FOR
RILEY COUNTY, KANSAS**

WHEREAS, K.S.A. 12-741 et seq., allows for the enactment of planning and zoning laws and regulations by counties for the protection of the public health, safety and welfare of said county, and

WHEREAS, K.S.A. 19-212 authorizes the Board of County Commissioners to perform all powers of local legislation and administration it deems appropriate, including charging and collecting fees,

**NOW THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY
COMMISSIONERS OF RILEY COUNTY, KANSAS:**

Section 1. The Planning and Development Department is hereby authorized to charge and collect the fees outlined below:

<u>ACTION</u>	<u>FEE</u>
*Building Permit - Residential Principal Structure.....	\$150.00
*Building Permit - Commercial/Industrial Principal Structure.....	\$225.00
*Building Permit - Residential Addition/Accessory Structure	\$150.00
*Building Permit - Commercial/Ind Addition/Accessory Structure	\$225.00
Floodplain Development Permit	\$ 75.00
Floodplain Development Permit w/Base Flood Elevation.....	\$100.00
Sign Permit.....	\$ 50.00
Special Event Permit.....	\$100.00
Boundary Line Adjustment or Lot Split	\$100.00
Conditional Use	\$400.00
Easement Vacation.....	\$300.00
Final Development Plan (PUD) Amendment	\$200.00
Platting (4 lots or less)	\$350.00
Platting (5 lots or more)	\$450.00
Platting & Rezoning.....	\$550.00
Replatting.....	\$200.00
Residential Use Designator.....	\$200.00
Residential Use Designator & Plat	\$350.00
Rezoning	\$450.00

Road Name Change	\$100.00
Special Use.....	\$400.00
Variance	\$300.00
Zoning Appeal	\$200.00
Agritourism License.....	\$200.00
Agritourism License renewal.....	\$100.00
Short Term Rental License.....	\$200.00
Short Term Rental License renewal	\$100.00
Excavation License	\$150.00
Mobile Home Park License (\$5 per lot)	\$300.00 maximum
Site Evaluation (No Profile).....	\$ 50.00
Profile/Site Evaluation.....	\$150.00
New Private Septic Permit.....	\$150.00
Lagoon Permit.....	\$300.00
Private Wastewater Disposal System Repair Permit (Major Repairs).....	\$ 75.00
Private Wastewater Disposal System Repair Permit (Minor Repairs)	No Charge
Environmental Systems Evaluation (Evaluation for sale of property)	\$100.00
Environmental Systems Evaluation Revisit.....	\$ 50.00
Alternative System Permit	\$300.00
Inspection of Alternative Private Wastewater Disposal System.....	\$100.00
(No charge for County's inspection if homeowner provides documentation of semi-annual service contract and maintenance reports from licensed contractor)	
Re-inspection of Alternative Private Wastewater Disposal System.....	\$ 75.00
(No charge for County's inspection if homeowner provides documentation of semi-annual service contract and maintenance reports from licensed contractor)	
Initial Septic Hauler License.....	\$150.00
Septic Hauler License Renewal	\$ 50.00
Initial Installer License	\$150.00
Installer License Renewal	\$ 50.00
Water Well Permit	\$ 75.00
Mobile Home Park Wastewater Permit	\$100.00
Coliform Test.....	\$ 9.00
Nitrate Test.....	\$ 2.00
Iron Test	\$ 2.00
Fluoride Test	\$ 5.00
Hardness Test.....	\$ 2.00
Alkalinity Test	\$ 2.00
Chloride Test.....	\$ 2.00
Chlorine Test.....	\$ 2.00
Sulfate Test	\$ 2.00
PH Test.....	\$ 2.00

* A separate building permit is required for each category; however, if a principal structure and an accessory structure are constructed simultaneously, the total fee for the two permits shall be \$50 above the permit fee for the principal structure. In the event construction is commenced prior to the issuance of a building permit, the permit fee shall be doubled to compensate for the direct costs and additional staff costs involved in enforcement activities.

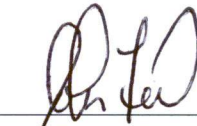
PLANNING AND DEVELOPMENT FEES

Section 2. Resolution No. 062719-20 and all other resolutions in conflict herewith are hereby revoked.

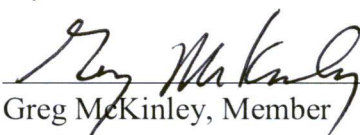
Section 3. This Resolution shall become effective upon publication in the official County newspaper.

ADOPTED this 13th day of December 2021.

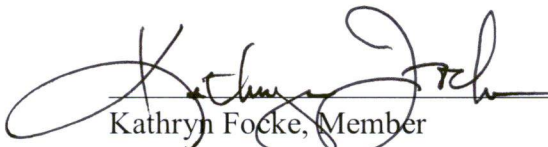
**BOARD OF COUNTY COMMISSIONERS
OF RILEY COUNTY, KANSAS**



John Ford, Chair

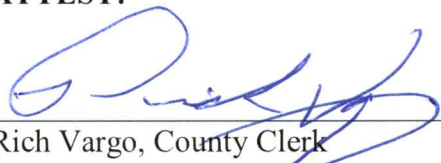


Greg McKinley, Member



Kathryn Focke, Member

ATTEST:



Rich Vargo, County Clerk

Attachment: Current P&D Fee schedule (13185 : Planning & Development fee schedule review)

	1992	2003	2007	2008	2012	2014	2016	2018	2019	2021	First appeared on fee schedule	Change since first cost
Building permit - Residential home	\$60	\$100	\$100	\$100	\$150	\$150	\$150	\$150	\$150	\$150	1992	\$90
Building permit - Commercial/industrial primary use	\$80	\$150	\$150	\$150	\$225	\$225	\$225	\$225	\$225	\$225	1992	\$145
Building permit - residential outbuilding	\$25	\$50	\$50	\$50	\$150	\$150	\$150	\$150	\$150	\$150	1992	\$125
Building permit - commercial/industrial outbuilding	\$25	\$75	\$75	\$75	\$225	\$225	\$225	\$225	\$225	\$225	1992	\$200
Floodplain development permit					\$75	\$75	\$75	\$75	\$75	\$75	2012	\$0
Floodplain development permit w/ BFE					\$100	\$100	\$100	\$100	\$100	\$100	2012	\$0
Sign Permit	\$25	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	1992	\$25
Special Event permit					\$100	\$100	\$100	\$100	\$100	\$100	2012	\$0
BLA/Lot Split					\$100	\$100	\$100	\$100	\$100	\$100	2012	\$0
Conditional Use	\$125	\$200	\$200	\$200	\$400	\$400	\$400	\$400	\$400	\$400	1992	\$275
PUD amendment				\$100	\$200	\$200	\$200	\$200	\$200	\$200	2008	\$100
Plat (4 lots or less)	\$125	\$200	\$200	\$200	\$350	\$350	\$350	\$350	\$350	\$350	1992	\$225
Plat (5 lots or more)	\$125	\$275	\$275	\$275	\$450	\$450	\$450	\$450	\$450	\$450	1992	\$325
Plat/rezone					\$550	\$550	\$550	\$550	\$550	\$550	2012	\$0
Replat	\$75	\$100	\$100	\$100	\$200	\$200	\$200	\$200	\$200	\$200	1992	\$125
RUD					\$200	\$200	\$200	\$200	\$200	\$200	2012	\$0
RUD/plat					\$350	\$350	\$350	\$350	\$350	\$350	2012	\$0
Rezone	\$275	\$275	\$275	\$275	\$450	\$450	\$450	\$450	\$450	\$450	1992	\$175
Road name change		\$50	\$50	\$50	\$100	\$100	\$100	\$100	\$100	\$100	2003	\$50
Special Use			\$275	\$275	\$400	\$400	\$400	\$400	\$400	\$400	2007	\$125
Variance	\$125	\$200	\$200	\$200	\$300	\$300	\$300	\$300	\$300	\$300	1992	\$175
Zoning Appeal	\$125	\$125	\$125	\$125	\$200	\$200	\$200	\$200	\$200	\$200	1992	\$75
Agritourism license										\$200	2021	N/A
Agritourism license renewal										\$100	2021	N/A
Short term rental license										\$200	2021	N/A
short term rental license renewal										\$100	2021	N/A
Excavation license		\$100	\$100	\$100	\$150	\$150	\$150	\$150	\$150	\$150	2003	\$50
Mobile home park license		\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	2003	\$0
Site Evaluation (no profile)								\$50	\$50	\$50	2018	\$0
Profile/site evaluation					\$150	\$150	\$150	\$150	\$150	\$150	2012	\$0
New private septic permit					\$150	\$150	\$150	\$150	\$150	\$150	2012	\$0
Lagoon permit					\$300	\$300	\$300	\$300	\$300	\$300	2012	\$0
Septic major repair					\$75	\$75	\$75	\$75	\$75	\$75	2012	\$0
Septic minor repair					\$75	\$75	\$75	N/C	N/C	N/C	2012	-\$75
ESE					\$100	\$100	\$100	\$100	\$100	\$100	2012	\$0
ESE revisit					\$50	\$50	\$50	\$50	\$50	\$50	2012	\$0
Alt system permit					\$300	\$300	\$300	\$300	\$300	\$300	2012	\$0
Alt system inspection							\$100	\$100	\$100	\$100	2016	\$0
Alt system re-inspection							\$75	\$75	\$75	\$75	2016	\$0
Initial septic hauler license					\$150	\$150	\$150	\$150	\$150	\$150	2012	\$0
Septic hauler license renewal					\$50	\$50	\$50	\$50	\$50	\$50	2012	\$0
Initial installer license					\$150	\$150	\$150	\$150	\$150	\$150	2012	\$0
Installer license renewal					\$50	\$50	\$50	\$50	\$50	\$50	2012	\$0
Water well permit					\$75	\$75	\$75	\$75	\$75	\$75	2012	\$0

MHP wastewater permit					\$100	\$100	\$100	\$100	\$100	\$100	2012	\$0
Text amendment	\$125											
Easement vacation	\$100	\$175	\$175	\$175	\$300	\$300	\$300	\$300	\$300	\$300	1992	\$200



PUBLIC WORKS
Public Hearing

John Ellermann
Public Works
Director/County Engineer
6215 Tuttle Creek Blvd
Manhattan, KS 66503
Phone: 785-537-6330

COMMISSION AGENDA REPORT

FROM: John Ellermann, Public Works Director
MEETING: February 23, 2023
SUBJECT: Bala City - Vacation Request of Certain Roads
PRESENTER: John Ellermann

BACKGROUND

Bala City was originally platted in 1887 and is located in the SW ¼ of the SE ¼ of Section 35, Township 8, Range 4. Since its inception many of the roads have either never been built or have disappeared from non-use. Many of the landowners now own multiple lots or even entire blocks.

Nicholas Porter owns the tract of land to the East of 3rd St. and has requested all Bala platted road right-of-way along his West property line to be vacated. Maps are attached for reference.

The right-of-way requested is not currently being used and no longer a public utility.

Reviewing the road right-of-way to be vacated as proposed by Nicholas Porter, I determined that 4th Street had been inadvertently included. The correct right-of-way description should exclude 4th Street and include the alley of Block 13.

DISCUSSION

The Commission is being asked to consider vacating a portion of the road right-of-way pursuant to K.S.A. 68-102.

Exercising its role as viewers pursuant to K.S.A. 68-104, the Commission reviews the Road Petition and reconciles the proposed legal description of the road right-of-way to be vacated to exclude 4th Street and include the alley of Block 13.

If the Board approves the petition, the next step, before any road is vacated, is to hold a public

hearing. As per K.S.A. 68-102a notice has been given by publication in the official county newspaper and by certified mail to landowners adjoining the road proposed to be vacated. At the public hearing the Board of County Commissioners will decide whether to vacate the roads petitioned to be closed.

FISCAL IMPACT

There is very little expense to the County for the vacation, however, once the right-of-way is vacated and turned over to the adjacent landowner the property will be added to the tax roll.

RECOMMENDATION(S)

Staff does not see any negative impact in proceeding with vacating the proposed road right-of-way.

POSSIBLE MOTION(S)

I move to approve the Resolution Vacating a Portion of 3rd Street, Garfield Street and the Alley of Block 13 Right-of-Way in Bala City, Riley County, Kansas.

I move approve the Resolution Vacating a Portion of 3rd Street, Garfield Street and the Alley of Block 13 Right-of-Way in Bala City, Riley County, Kansas with the following changes...

Enclosures:

- Resolution to Vacate ROW (PDF)
- Bala_ProposedVacatedRoads (PDF)
- Bala City Plat (PDF)

RESOLUTION NO. 022323-_____**RESOLUTION PROVIDING FOR AN ORDER VACATING A PORTION OF
3RD STREET, GARFIELD STREET AND THE ALLEY OF BLOCK 13
RIGHT-OF-WAY, IN BALA CITY, RILEY COUNTY, KANSAS.****BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF RILEY COUNTY,
KANSAS:**

1. That at the regular meeting of the Board of Commissioners of the County of Riley, State of Kansas, begun and held at 110 Courthouse Plaza, in the City of Manhattan, in said County of Riley, Kansas, on the 9th day of February, 2023, said Board did propose, pursuant to K.S.A. 68-102(a) vacation of a certain road right-of-way in Bala City, Riley County, Kansas.
2. That notice has been given pursuant to K.S.A. 68-102a and K.S.A. 68-104 by publication and by mailing a notice to the adjoining landowner of such road right-of-way at the address where such landowner's tax statement is sent, by certified mail, of the proposed vacation of such road right-of-way.
3. That a public hearing was held at the regular meeting of the Board of Commissioners of the County of Riley, State of Kansas, begun and held at 110 Courthouse Plaza, in the City of Manhattan, in said County of Riley, Kansas, on the 23rd day of February, 2023, regarding the vacation of such road right-of-way in Riley County, Kansas.

4. That all parties have been given a hearing and an opportunity to claim damages.
5. Exercising its role as viewers pursuant to K.S.A. 68-104, the Board of Commissioners of the County of Riley, State of Kansas, reviews the Road Petition and reconciles the proposed legal description of the vacated road right-of-way to exclude 4th Street and to include the alley of Block 13.
6. That the road right-of-way described as follows is of no public utility by reason of neglect, nonuse, and inconvenience, and therefore should be and hereby is vacated as a public road right-of-way in Bala City, the County of Riley, State of Kansas; that said road right-of-way shall be vacated on the records in the office of the County Surveyor and from thence forth said road right-of-way shall no longer be considered to be public highways; that the County Surveyor shall issue his order to the Trustees of the respective townships in which said road right-of-way is located, directing them to cause the same to be vacated as road right-of-way at the time and in the manner indicated by him:

SW ¼ of the SE ¼ of Section 35, Township 8, Range 4 East of the Sixth Principal Meridian, in Bala City, Riley County, Kansas, and more particularly described as follows:

From Bala Road, South on 3rd Street to the South side of Garfield Street;
From 3rd Street East on Garfield to the East side of the alley of Block 13, and
From Garfield Street South on the alley of Block 13 to the North side of Railroad Avenue.

7. That no damages or compensation shall be awarded to any person or persons in consequence of the vacation of said road right-of-way described in paragraph 5 for the reason that no owner or owners, or their agents or guardians, having been duly notified of the applications and proceedings by which their property is sought to be appropriated or damaged, has filed a written application for such damages as provided by K.S.A. 68-106, but that such persons may file a written application for such damages within twelve (12) months after the date of adoption of this Resolution.

8. This Resolution and Order shall be recorded in the Office of the Register of Deeds of Riley County, Kansas, upon its adoption by the Board of Commissioners of Riley County, Kansas.

Adopted this 23rd day of February, 2023.

**THE BOARD OF COUNTY
COMMISSIONERS OF RILEY
COUNTY, KANSAS**

Kathryn Focke, Chairwoman

John Ford, Vice-Chairman

Greg McKinley, Member

ATTEST:

Rich Vargo, Riley County Clerk

(seal)

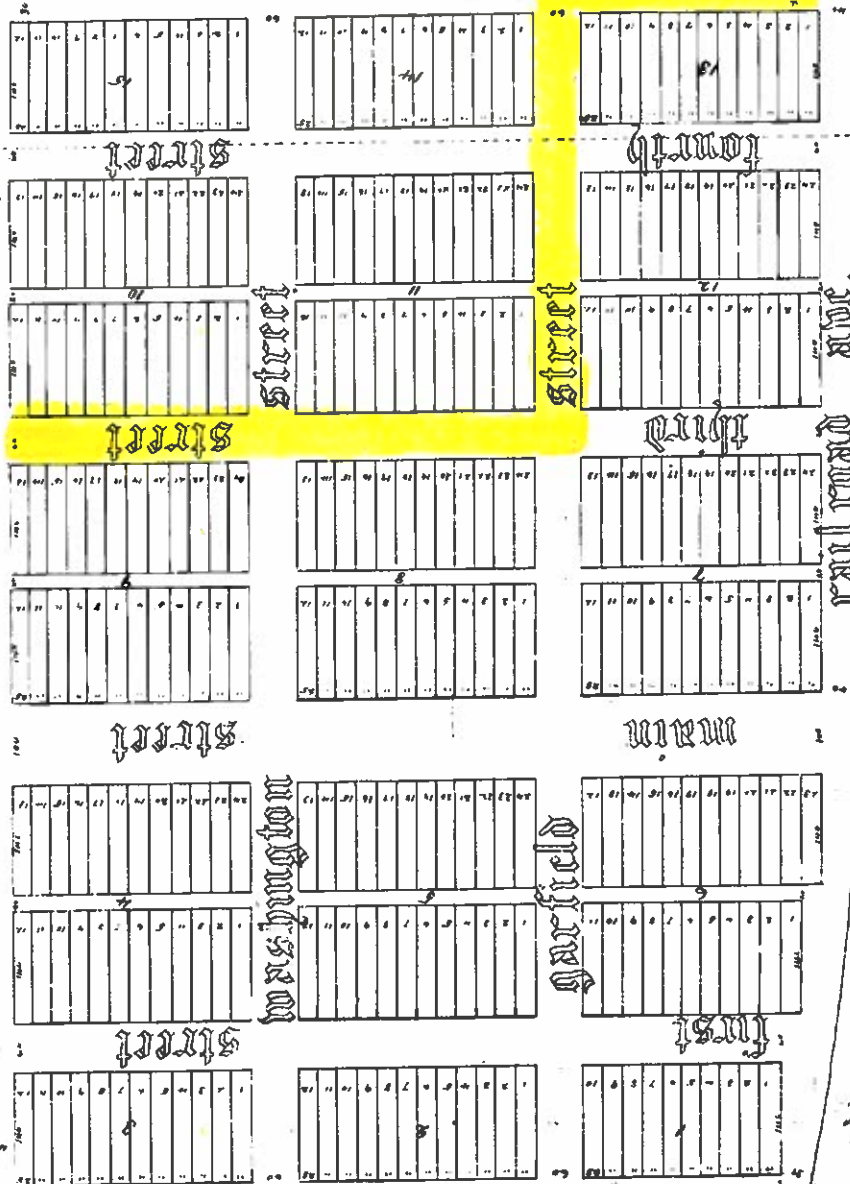
Attachment: Resolution to Vacate ROW (13189 : Bala City - Vacation Request of Certain Roads)

Proposed Vacated Roads
Bala
35 - 8 - 4



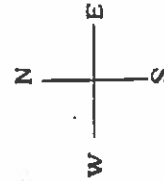
Attachment: Bala_ProposedVacatedRoads (13189 : Bala City - Vacation Request of Certain Roads)

BALA CITY CO. D.D.



Description of survey
Survey begun at a point
S 69° 14' N. of S.W. cor. of the
S.E. 1/4 of Sec. 35, T. 8, R. 4, E.
of 6th P.M. Thence
thence 105.2 feet N.
thence 151.0 feet E.
thence 118.5 feet S.
thence 89.0 feet W.
thence 223.2 feet N. to
point of beginning.

To Be Vacated



Scale 100 ft. = 1 in.

I acknowledge this Plat to
be accurate.
19th Nov. 1897
President of Bala City
Company



COUNTY APPRAISER'S OFFICE
Presentation

Anna Burson
County Appraiser
110 Courthouse Plaza
Manhattan, KS 66502
Phone: 785-537-6310

MEMORANDUM

FROM: Anna Burson

MEETING: February 23, 2023

SUBJECT: Riley County Appraiser's "Who we are, what we do, valuation 2023"

PRESENTER: Anna Burson Riley County Appraiser

Enclosures:

- Riley County Who we are what we do property value in 2023 (PDF)



Riley County Appraiser's Office

Who we are, what we do,
property value in 2023

ANNA BURSON

Who we are:

We are a team of highly trained and skilled individuals dedicated to ensuring property is accurately listed and valued to the best of our ability without bias to ensure public trust. We are property owners, taxpayers, parents, children, brothers, sisters, husbands, wives, friends, and colleagues.

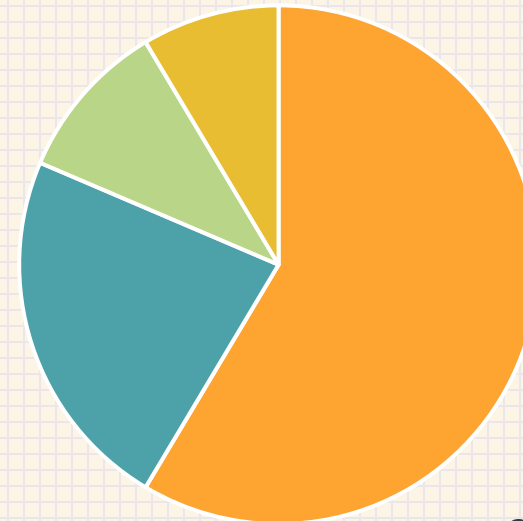


Why do we appraise?

- The cost of local services such as: police, fire, and EMS protection; roads, parks, public health services, and schools, all make up the Local budgets.
- These costs are spread across the value of taxable property.

Personal Property & Real Property

- We are responsible for uniformly and accurately valuing all property every year to ensure everyone's piece of the pie is accurate.



2023



Fair & Equitable

When you have two homes one older and one newer, one larger and one smaller, one of higher quality and one of lower quality. It is unfair and inequitable to value these properties the same.

We do not set taxes.

KANSAS IS A MARKET VALUE STATE. WE
DETERMINE PROPERTY VALUE BASED ON SALES.

Local Budget

= Mill Levy

Total Assessed Value of
all Taxable Property



Attachment: Riley County Who we are what we do property value in 2023 (13188 : Who we

When Do We inspect?

Annual Review

Digital Review
Inspection
Update Photos
Interview/ Green
Cards

Building Permits

Interior remodels
Additions
New Construction
Repairs

Sales

Does the sale
represent Market
Data verification
Field Inspection
Update Photo

Appeals

During an appeal if
we are advised of
a conditional issue,
we were not aware
of we will inspect
interior and
exterior to ensure
the property is
accurately listed

Sales Review & New Construction

-Two of the most critical data collection processes

Sales Review

- Sales set the market for other homes that have not sold
- Fair market value- the amount of money a willing and able buyer will pay and a seller without undue influence is willing to accept for a property in the open market.
- Full review, onsite inspection, and review of listings many times we will find changes that were not previously accounted for.

New Construction

- Initial data collection of new structures
- Remodels/renovations, additions, repairs



The Analysis- 3 approaches to value

Commercial commonly uses all three approaches while Residential typically uses cost and market

Cost

Land, local multiplier, and depreciation

Market

Residential- Orion utilizes Multiple regression analysis from sales data to establish contributory value for the various characteristics of the home

Commercial-due to the system limitations of Orion we use a sales benchmark study

Income

Uses typical market rents, expenses, and occupancies

All estimates are rigorously tested during all phases of the analysis process based on USPAP Standards and State Guidelines.

Trend VS Index

Trend- 13.31% County Wide

- Uses paired sales to determine changes in the market.

Index- Varies by Neighborhood

- Is the relationship of the prior years value to sales within a neighborhood which will be different than the trend due to different supply and demand factors affecting individual neighborhoods.

2023 Final Valuation

Value Change Summary

Riley County Value Change Summary

Residential		Farm Homesite		Commercial		Ag Use Land		Vacant	% Change	\$Change
Median	12.19	Median	11.01	Median	2.63	Median	0	Median	40	230
Quartile		Quartile		Quartile		Quartile		Quartile		
1	8.79	1	6.95	1	0	1	-5.88	1	0	0
2	12.19	2	11.01	2	2.63	2	0	2	40	230
3	16.19	3	15.50	3	7.21	3	1.27	3	84.22	2470
50%		50%		50%		50%		50%		
9% to 16%		7% to 16%		0% to 7%		-6% to 1%		0% to 85%		

Notices and Appeals

- Notices are being mailed early tomorrow February 24th.
- Monday February 27th value changes will be updated on the parcel search website at noon. Values will update the following day on the GIS website
- Last Day to sign up for an appeal is March 27th and appeals must be completed by April 25th.
- To file an appeal please fill out the form and send it in or drop it off in our office.
- If you are looking for sales information, please contact our office and we will be glad to assist you.



Thank you

ANNA BURSON



**EMERGENCY
MANAGEMENT/FIRE
Project**

Russel Stukey
Emergency Management
Director
115 North 4th Street
Manhattan, KS 66502
Phone: 785-537-6333

COMMISSION AGENDA REPORT

FROM: Russel Stukey Fire Chief RCFD#1

MEETING: February 23, 2023

SUBJECT: Request permission to solicit bids for fire station construction project.

PRESENTER: Russel Stukey

BACKGROUND

These Stations have been on the drawing board for several years now. Due to covid related delays they have been pushed back several times.

DISCUSSION

We are ready to proceed with the bidding process to determine the cost of the project.

FISCAL IMPACT

We believe we will have enough cash in Capital Outlay and this years bugdet to fund the majority the project. Depending on how the bids come in?

RECOMMENDATION(S)

Staff recommends approval to advertise to solicit bids.

POSSIBLE MOTION(S)

Move to approve RCFD #1 administration move forward to advertise solicitation of bids for the Ashland Station station 102 University Park Station 110 building project with funds to come from RCFD Capital Outlay.

Move to deny

Move to modify

Move to table

No action required.

The Board agreed by consensus to

Enclosures:

- 21022 Riley County Fire District 1 Addendum No. 1 2-16-23 (PDF)
- BIM_21022_025-Riley County Fire District 1 -Construction Documents (PDF)
- Riley County Fire District 1 Addendum No. 2 (PDF)
- SPC_21022_002-RCFD1 (PDF)

Anderson Knight Architects
2505 Anderson Ave., Suite 201
Manhattan, KS 66502
Phone 785-539-0806

February 16, 2023

ADDENDUM NO. 1

NOTICE TO ALL CONTRACTORS furnishing all labor and materials necessary and required for:

RILEY COUNTY FIRE DISTRICT #1
UNIVERSITY PARK STATION 110 AND ASHLAND BOTTOMS STATION 102

ARCHITECT'S PROJECT NO.: 21022

It is intended that all work affected by the following provisions conform to the original Project Manual and Drawings for **Riley County Fire District #1, University Park Station 110 and Ashland Bottoms Station 102**. This addendum shall be recognized by all concerned as an incorporated part of the Contract Documents. Before executing the contract, all contractors shall assure themselves that all changes and interpretations covered by the contents herein are thoroughly understood and that all addenda have been fully accounted for in the Contract Price.

REVISIONS:

Item 1: BID DATE CHANGE

The pre-bid meeting and bid dates are changed as follows:

Pre-bid meeting: Tuesday, March 7th, 2023 at 3:00pm, same location.

Bids due: Friday March 24th, 2023 before 5:00pm, same location.

Bid opening: Monday, March 27th, 9:05am, same location.

Item 2: DOCUMENT 00200 INSTRUCTIONS TO BIDDERS

Add paragraph B-7b as follows:

- b. The University Park location is currently going through a re-platting process to allow the construction of this facility. Construction at this location will not be able to start until this process is completed. For purposes of completion time in the bid form, contractor shall assume the University Park project will be able to start construction 30 days after notice-to-proceed. If in fact the construction of University Park cannot start within the 30 days after notice to proceed due to the re-platting process, the contractor shall honor their prices for up to four (4) months after notice-to-proceed.

Item 3: ALTERNATE BUILDING SYSTEM

See attached revised Document 00410 BID FORM for the addition of Alternate No. 2 – Provide Post Frame building in lieu of pre-engineered metal building.

The following are MINIMUM requirements for the Post Frame building. Approved manufacturers include Morton, Wick, EPS. Other manufacturers may be submitted for consideration prior to bidding as long as they meet the requirements below.

- A. Submit shop drawings that have been engineered and certified by a professional engineer licensed in Kansas, include seal and signature. Minimum design data shall be as listed in the Pre-engineered Buildings Section 13121.
- B. Manufacturers standard roof pitch and bay spacing.
- C. Treated material for buried portion of post, 50 year warranty.
- D. Machine laminated columns.
- E. SPF#2 or better lumber.
- F. Roof purlins on edge or drop purlins.
- G. 26 gage metal panels and trims.
- H. 40 year warranty for paint, color cracking, peeling, and chipping.
- I. Must meet 2021 IBC Risk Category IV building requirements.

**DOCUMENT 00410
BID FORM**

TO: Board of County Commissioners of
Riley County, Kansas
110 Courthouse Plaza
Manhattan, Kansas 66502

PROJECT: Riley County Fire District #1
University Park Station 110 and Ashland Bottoms Station 102

FROM: (name) _____
(address) _____
(telephone) _____

The Bidder, having examined Bidding Documents and Contract Documents prepared by Anderson Knight Architects, 2505 Anderson Ave. Suite 201, Manhattan, Kansas 66502, dated February 10, 2023, and having personally inspected the actual location of the Work and the local sources of supply, is confident of quantities and conditions, and understands that in signing this Bid, the right to plead misunderstandings regarding the same is waived.

The Bidder acknowledges receipt of addenda Nos. ____ through ____ inclusive, and has considered the requirements of the Addenda and incorporated these requirements and all cost thereto in the Bid.

The Bidder agrees to furnish all labor, materials, equipment, and services required to do, perform and complete the Work in accordance with the Contract Documents, and to accept full compensation therefore the amount of the Total Bid for the portion of the Work so completed.

The Bidder agrees to accept the provisions of Document 00200 – Instructions to Bidders and Document 00210 – Supplementary Instructions to bidders regarding disposition of Bid Security.

The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of 60 days after the final scheduled time and date for receiving Bids.

The Bidder agrees that the Owner reserves the right to accept or reject any or all Bids, alternates, or Unit Pricing, to reject a Bid not accompanied by the required bid security or by data required by the Bidding Documents, to reject a Bid which is in any way incomplete or irregular, and to waive irregularities in Bids received and minor discrepancies in bidding procedures.

The Bidder agrees to Substantially Complete the Work within a period of _____ (bidder shall state number of days) calendar days from the date of commencement of the work as listed in the notice to proceed, and to pay as liquidated damages the amount specified in Document 00800 for each consecutive calendar day the Work remains substantially incomplete in accordance with the Contract Documents.

The Bidder agrees, if awarded a Contract, to enter into a Contract with the Owner on the terms stated in the Bid, and to execute the agreement within 10 days after receipt of the proposed Agreement Form, and to furnish the required Bonds and Certificates of Insurance prior to or at the time of execution of the Contract.

The Bidder proposed to enter into a Contract to perform the Work for the following sums:

FOR BASE BID, the lump sum of _____
_____ dollars (\$_____).

21022 Riley County Fire District #1
SECTION 00410 – BID FORM

FOR ALTERNATES: The following amounts shall modify the Base Bid Sum. Refer to Section 01230.

1. Alternate No. 1 – Provide exterior wainscot panel as indicated in the drawings.:
Add \$ _____.
2. Alternate No. 2 – Provide Post Frame building in lieu of pre-engineered metal building.:
Deduct \$ _____.

The Bidder agrees the following categories of Work will be performed or provided by subcontractors as listed and coordinated by the Bidder, and further certifies that the subcontractors listed herein meet the qualifications specified in the appropriate Specification Sections. If acceptance or nonacceptance of alternates will affect the designation of a subcontractor, attach a separate subcontractor listing for each Alternate. The required list of subcontractors shall be submitted within 2 hours after the final scheduled time for receipt of Bids.

1. Earthwork Subcontractor: _____
2. Cast-In-Place Concrete: _____
3. Steel Doors and Frames Supplier: _____
4. Overhead door Manufacturer & Installer: _____
5. Door Hardware Supplier: _____
6. Metal Building Manufacturer: _____
7. Post Frame Building Manufacturer (Alt #2): _____
8. Electrical Contractor: _____
9. Mechanical Contractor: _____
10. Plumbing Contractor: _____
11. Site Utility Contractor: _____

The Bidder has attached the following required information:

1. Bid security required by Document 00200 – Instructions to Bidders and Document 00210
-- Supplementary Instructions to Bidders, as specified under Document 00435

Respectfully submitted,

IF AN INDIVIDUAL:

name of individual

firm name, if any

address for communications

Signature

IF A PARTNERSHIP:

name of partnership

partner

signature

residence address

list names and residence address of all partners

21022 Riley County Fire District #1
SECTION 00410 – BID FORM

 IF A CORPORATION:

 name of corporation

 title of officer

 president or officer signature

 address for communications

Date _____

 1. Incorporated under the laws of the state of

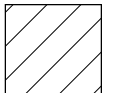
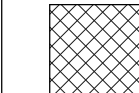
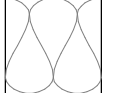
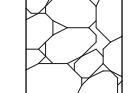
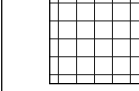
 2. Licensed to do business in the State of Kansas
 Yes _____ No _____ (check one)

(Attest)

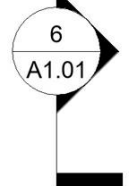
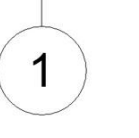
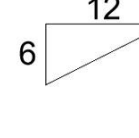
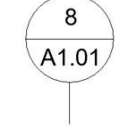
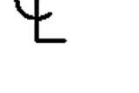
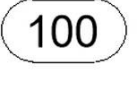
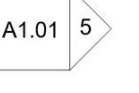
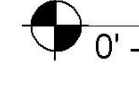
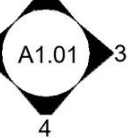
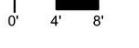
 (seal) _____ Secretary

END OF DOCUMENT

MATERIAL LEGEND

	BRICK / STONE VENEER		EARTH		METAL STUDS
	CELLULOSE / BATT INSULATION		GRANULAR FILL		PLYWOOD
	CONCRETE		GYPSUM BOARD		RIGID INSULATION
	CONCRETE MASONRY UNITS		METAL		WOOD

ARCHITECTURAL SYMBOLS

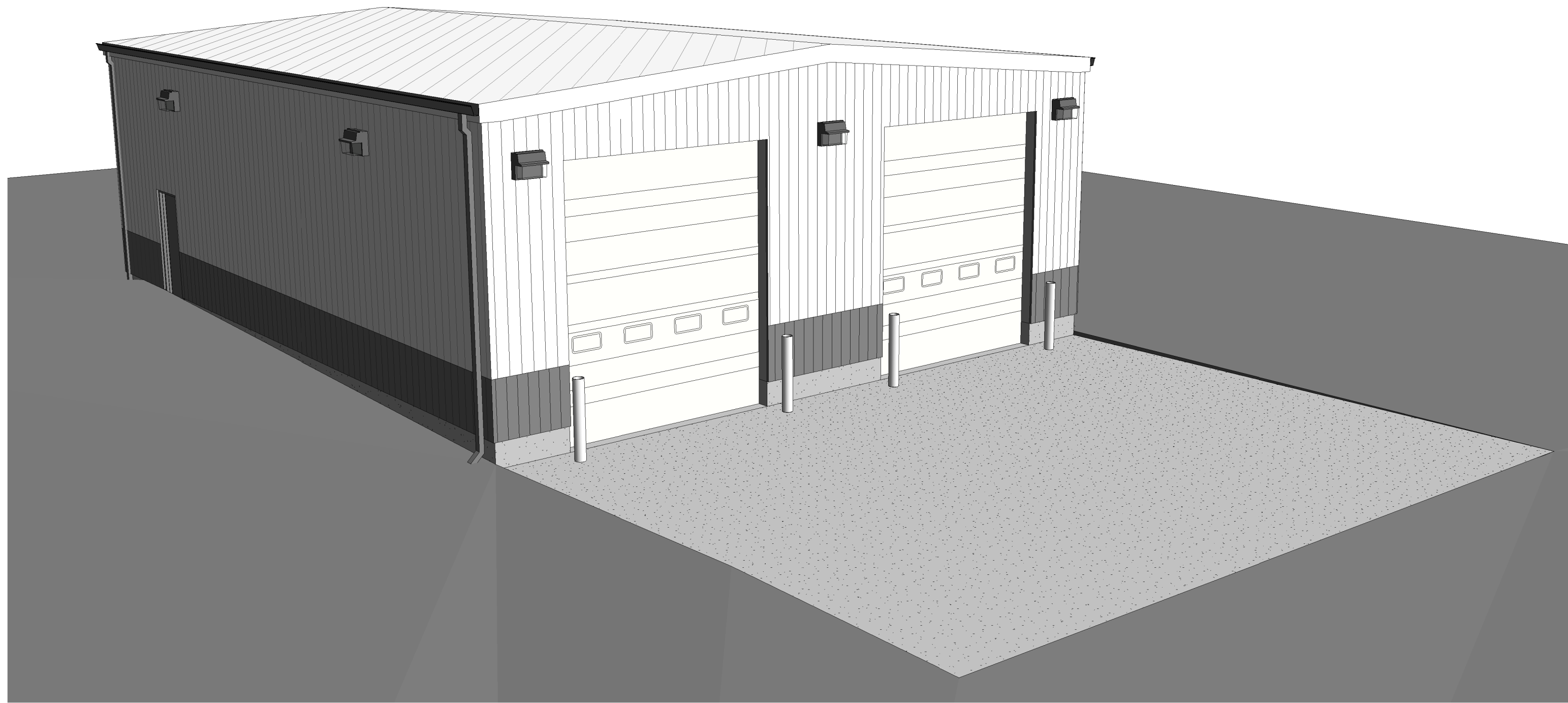
_ARCHITECTURAL SYMBOLS		_ARCHITECTURAL SYMBOLS		_ARCHITECTURAL SYMBOLS	
Symbol	DESCRIPTION	Symbol	DESCRIPTION	Symbol	DESCRIPTION
	BUILDING SECTION: SECTION NUMBER SHEET NUMBER		COLUMN GRID		ROOF SLOPE
	DETAIL/WALL SECTION: DETAIL NUMBER SHEET NUMBER		CENTERLINE		REVISION
	DOOR DESIGNATION		EXTERIOR ELEVATION		ELEVATION REFERENCE
	WINDOW DESIGNATION		INTERIOR ELEVATION		GRAPHIC SCALE

ABBREVIATIONS

AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	OD	OUTSIDE DIAMETER
ACT	ACCOUSTICAL CEILING TILE	FF	FINISH FLOOR	OH	OVERHEAD
AFF	ABOVE FINISH FLOOR	FHC	FIRE HOSE CABINET	OPG	OPENING
AGGR	AGGREGATE	FIN	FINISH	OPP	OPPOSITE
AL	ALUMINUM	FL	FLOW LINE		
ALT	ALTERNATE	FLR	FLOOR	PCT	PRE-CAST
APPROX	APPROXIMATE	FLUOR	FLUORESCENT	PL	PROPERTY LINE
ARCH	ARCHITECTURAL	FOB	FACE OF BRICK	PLAM	PLASTIC LAMINATE
		FOC	FACE OF CONCRETE	PLAS	PLASTER
		FS	FULL SIZE	PLYWD	PLYWOOD
BD	BOARD	FT	FOOT OR FEET	PR	PAIR
BLDG	BUILDING	FTG	FOOTING	PEMB	PRE-ENGINEERED METAL BUILDING
BLK	BLOCK	FURR	FURRING		
BLK'G	BLOCKING	FV	FIELD VERIFY	QT	QUARRY TILE
BM	BEAM				
BOT	BOTTOM	GA	GAUGE	R	RISER
BTWN	BETWEEN	GALV	GALVANIZED	RD	ROOF DRAIN
BUR	BUILT UP ROOFING	GC	GENERAL CONCRTRACTOR	RE	REFER TO
BW	BOTH WAYS	GL	GLASS	REF/REF	REFRIGERATOR
		GR	GRADE	R	
CJ	CONTROL JOINT	GYP	GYPSUM	REINF	REINFORCED
CLG	CEILING	GYP BD	GYPSUM BOARD	REQ'D	REQUIRED
CLKG	CAULKING			RM	ROOM
CLR	CLEAR	HB	HOSE BIBB	RO	ROUGH OPENING
CLR	CLEAR	HC	HOLLOW CORE		
CMU	CONCRETE MASONRY UNIT	H/C	HANDICAPPED	S	SOUTH
COL	COLUMN	HDWD	HARDWOOD	SC	SOLID CORE
CONC	CONCRETE	HDWE	HARDWARE	SCHED	SCHEDULE
CONN	CONNECTION	HM	HOLLOW METAL	SECT	SECTION
CONSTR	CONSTRUCTION	HR	HOUR	SF	SQUARE FOOT
CONT	CONTINUOUS	HT	HEIGHT	SHT	SHEET
CT	CERAMIC TILE	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SIM	SIMILAR
COA	CENTER OF ARCH			SP	SPRING POINT
CL	CENTERLINE	ID	INSIDE DIAMETER	SPEC	SPECIFICATION
		INSUL	INSULATION	SQ	SQUARE
DEG	DEGREE	INT	INTERIOR	SS	STAINLESS STEEL
DET/DTL	DETAIL			SSD	SEE STRUCTURAL DRAWINGS
DF	DRINKING FOUNTAIN	JAN	JANITOR	STAGG	STAGGERED
DIAG	DIAGONAL	JNT	JOINT	STD	STANDARD
DIA	DIAMETER	JST	JOIST	STIFF	STIFFENER
DN	DOWN			STL	STEEL
DS	DOWNSPOUT	KIT	KITCHEN	STRUC	STRUCTURAL
DWG	DRAWING			SUSP	SUSPENDED
		LAB	LABORATORY	SAFRM	SPRAY APPLIED FIRE RESISTANT MATERIAL
E	EAST	LAM	LAMINATE		
(E)	EXISTING	LAV	LAVATORY	TR	TREAD
EA	EACH	LT	LIGHT	T & B	TOP AND BOTTOM
EJ	EXPANSION JOINT			TER	TERRAZZO
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MAX	MAXIMUM	T & G	TONGUE AND GROOVE
EL/ELEV	ELEVATION	MECH	MECHANICAL	THK	THICK
ELEC	ELECTRICAL	MEMB	MEMBRANE	TO	TOP OF
ELEV	ELEVATION	MFR	MANUFACTURER	TS	TUBE STEEL
EMER	EMERGENCY	MH	MANHOLE	TYP	TYPICAL UNLESS NOTED
ENCL	ENCLOSURE	MIN	MINIMUM		
EQ	EQUAL	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	MO	MASONRY OPENING		
EW	EACH WAY	MTL	METAL	VCT	VINYL COMPOSITION TILE
EWV	ELECTRIC WATER COOLER	MUL	MULLION	VER	VERIFY
EXP	EXPANSION			VERT	VERTICAL
EXT	EXTERIOR	N	NORTH		
FA	FIRE ALARM	NIC	NOT IN CONTRACT	W	WEST
FD	FLOOR DRAIN	NO	NUMBER	w/	WITH
FDC	FIRE DEPARTMENT CONNECTION	NOM	NOMINAL	WC	WATER CLOSET
FDN/FND	FOUNDATION	NTS	NOT TO SCALE	WD	WOOD
FE	FIRE EXTINGUISHER	OC	ON CENTER	w/o	WITHOUT

DRAWING INDEX

Sheet List					
Sheet Number	Sheet Name	XXXX XX.XX - GMP Pricing Set	XXXX.XX.XX - For Permit Set	XXXX.XX.XX - For Construction Set	XXXX.XX.XX - Revision #1
					XXXX.XX.XX - Revision #2
01 - General					
G1.01	General Information				
02 - Civil					
C1	University Park Site Plan				
C2	University Park Grading Plan				
C3	University Park H&V Control Plan				
C4	Ashland Bottoms Site Plan				
C5	Ashland Bottoms Grading Plan				
C6	Ashland Bottoms H&V Control Plan				
05 - Structural					
S0.01	General Notes & Details				
S1.01	1st Floor Framing Plan & Details				
06 - Architectural					
A1.01	First Floor Plan				
A4.01	Exterior Elevations				
07 - MEP					
MEP1.01	MEP Cover Page				
MEP2.01	Mechanical Specification				
MEP2.02	Electrical Specification				
08 - Mechanical					
M1.01	HVAC Floorplan				
M2.01	HVAC Schedules & Details				
09 - Plumbing					
P1.01	Plumbing Floorplan				
P2.01	Plumbing Schedules & Details				
10 - Electrical					
E1.01	Lighting Floorplan				
E2.01	Power Floorplan				
E3.01	Electrical Schedules & Details				





ANDERSON
KNIGHT
ARCHITECTS

DREAM. CREATE. INSPIRE.

2505 ANDERSON AVENUE
SUITE 201
MANHATTAN, KANSAS 66502

785.539.0806



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Riley County Fire District #1

University Park #110

Ashland Bottoms #102

Manhattan, Kansas

JOB NO: 21-022

DATE: 2.10.2023

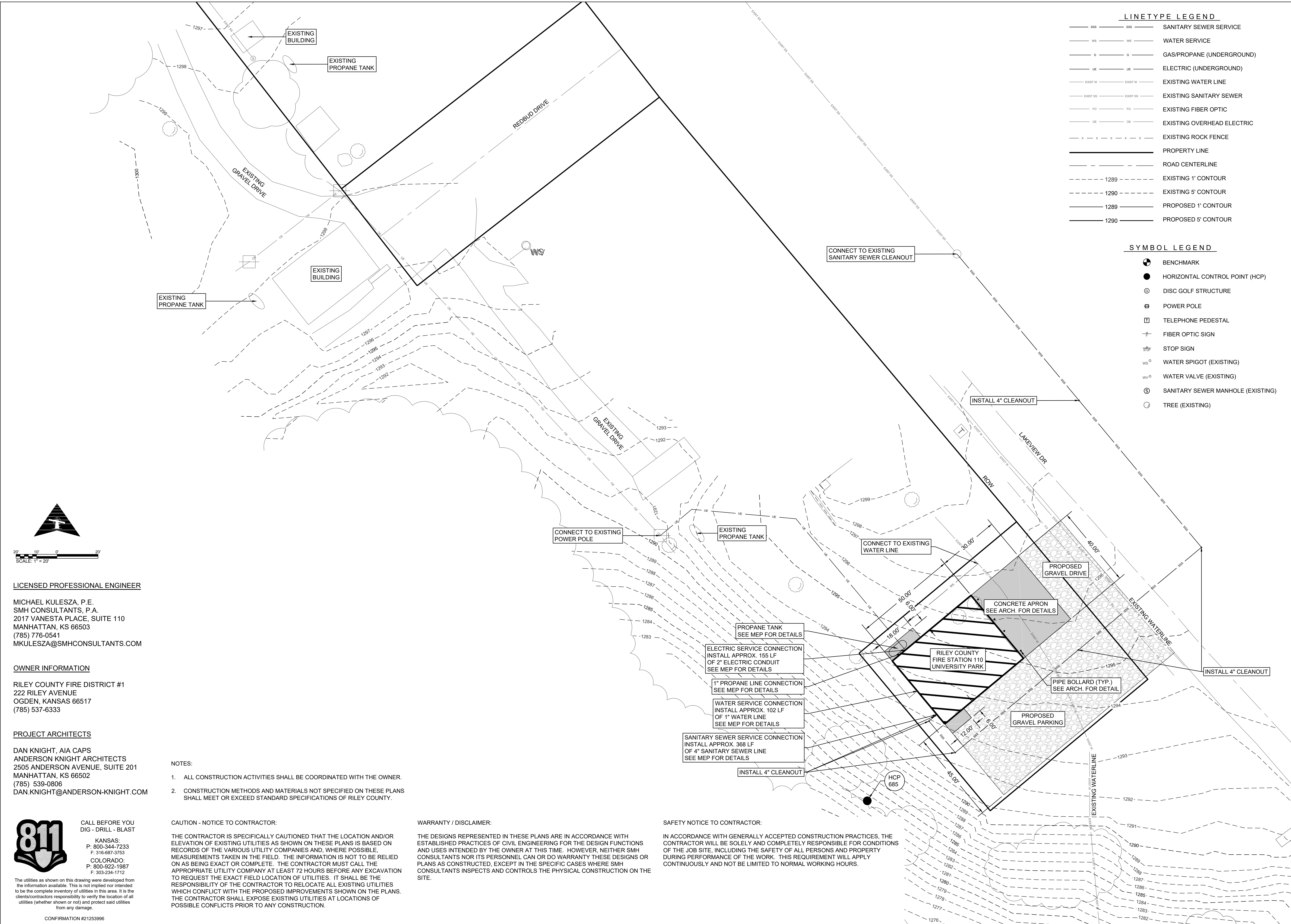
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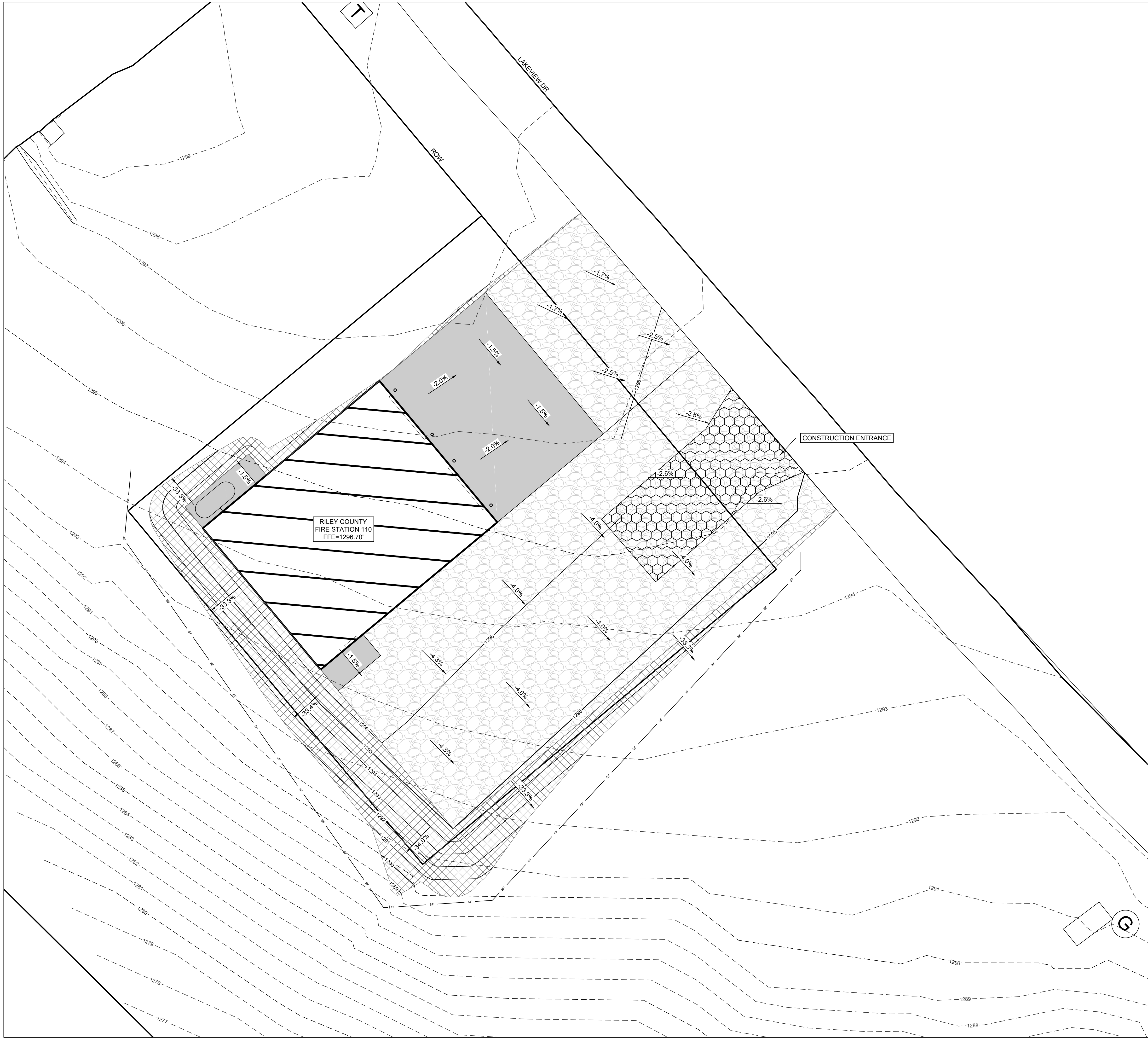
Construction Documents

REVISIONS:

General Information

G1.01

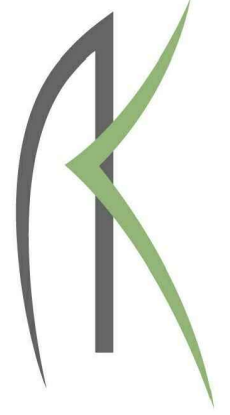




LINETYPE LEGEND		
SSS	SSS	SANITARY SEWER SERVICE
WS	WS	WATER SERVICE
G	G	GAS/PROPANE (UNDERGROUND)
UE	UE	ELECTRIC (UNDERGROUND)
EXIST W	EXIST W	EXISTING WATER LINE
EXIST SS	EXIST SS	EXISTING SANITARY SEWER
FO	FO	EXISTING FIBER OPTIC
OE	OE	EXISTING OVERHEAD ELECTRIC
X	X	EXISTING ROCK FENCE
		PROPERTY LINE
		ROAD CENTERLINE
1289	1289	EXISTING 1' CONTOUR
1290	1290	EXISTING 5' CONTOUR
1289	1289	PROPOSED 1' CONTOUR
1290	1290	PROPOSED 5' CONTOUR

LEGEND	
SF	SILT FENCE
1034	1' CONTOUR INTERVAL (EXISTING GROUND)
1035	5' CONTOUR INTERVAL (EXISTING GROUND)
1034	1' CONTOUR INTERVAL (PROPOSED GROUND)
1035	5' CONTOUR INTERVAL (PROPOSED GROUND)
	FLEXTERRA FLEXIBLE GROWTH MEDIUM OR APPROVED EQUAL (PERMANENT SEEDING)
	CONSTRUCTION ENTRANCE

- NOTES
1. NATIVE VEGETATION SHALL BE MAINTAINED IN ALL AREAS AS STORM WATER POLLUTION PREVENTION WITH THE EXCEPTION OF THOSE AREAS NOTED ON THIS PLAN SHEET.
 2. FLEXTERRA FLEXIBLE GROWTH MEDIUM, OR APPROVED EQUAL, SHALL BE UTILIZED ON ALL AREAS OF DISTURBED SOIL WHERE SLOPES EXCEED 8%.
 3. CONTRACTOR SHALL DESIGNATE A TRUCK WASHOUT AREA.
 4. CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.



**ANDERSON
KNIGHT
ARCHITECTS**

2505 ANDERSON AVENUE
SUITE 201
MANHATTAN, KANSAS 66502

785.539.0806



**SMH
CONSULTANTS**

2017 Vanesta Place, Suite 110
Manhattan, Kansas 66503
(785) 776-0541 FAX 776-9760

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2/6/2023 11:27:53 AM

Riley County Fire District #1

University Park #110

Ashland Bottoms #102

Manhattan, Kansas

JOB NO: 21-022

DATE: 2-10-2023

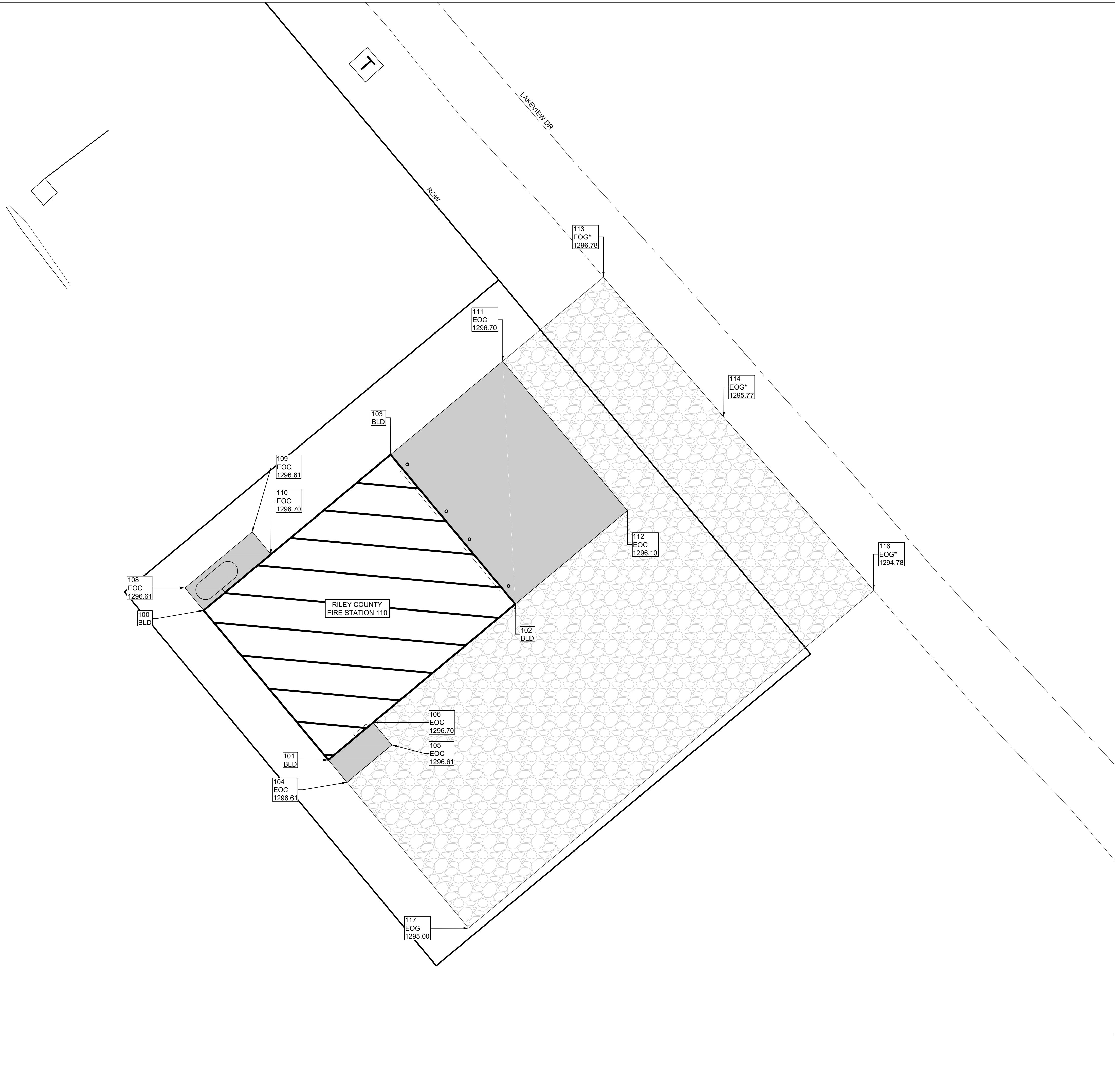
ISSUE RECORD:
Construction Documents

REVISIONS:

NO.	DESCRIPTION	DATE

UNIVERSITY PARK
GRADING PLAN

C2



BUILDING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	379440.15	1675687.61	1296.70	BLD
101	379409.42	1675713.23	1296.70	BLD
102	379441.44	1675751.63	1296.70	BLD
103	379472.16	1675726.02	1296.70	BLD

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
104	379404.81	1675717.07	1296.61	EOC
105	379412.50	1675726.28	1296.61	EOC
106	379417.11	1675722.44	1296.70	EOC
108	379444.76	1675683.77	1296.61	EOC
109	379456.28	1675697.60	1296.61	EOC
110	379451.67	1675701.44	1296.70	EOC
111	379491.37	1675749.07	1296.70	EOC
112	379460.65	1675774.68	1296.10	EOC
113	379508.63	1675769.77	1296.78	EOG*
114	379479.87	1675794.50	1295.77	EOG*
116	379444.26	1675825.30	1294.78	EOG*
117	379374.86	1675742.04	1295.00	EOG

LEGEND	
BLD	BUILDING CORNER
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
*	MATCH EXISTING



2505 ANDERSON AVENUE
SUITE 201
MANHATTAN, KANSAS 66502
785.539.0806



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Riley County Fire District #1
University Park #110
Ashland Bottoms #102
Manhattan, Kansas

JOB NO: 21-022
DATE: 2-10-2023

ISSUE RECORD:
Construction Documents

REVISIONS:	

UNIVERSITY PARK
H&V CONTROL PLAN

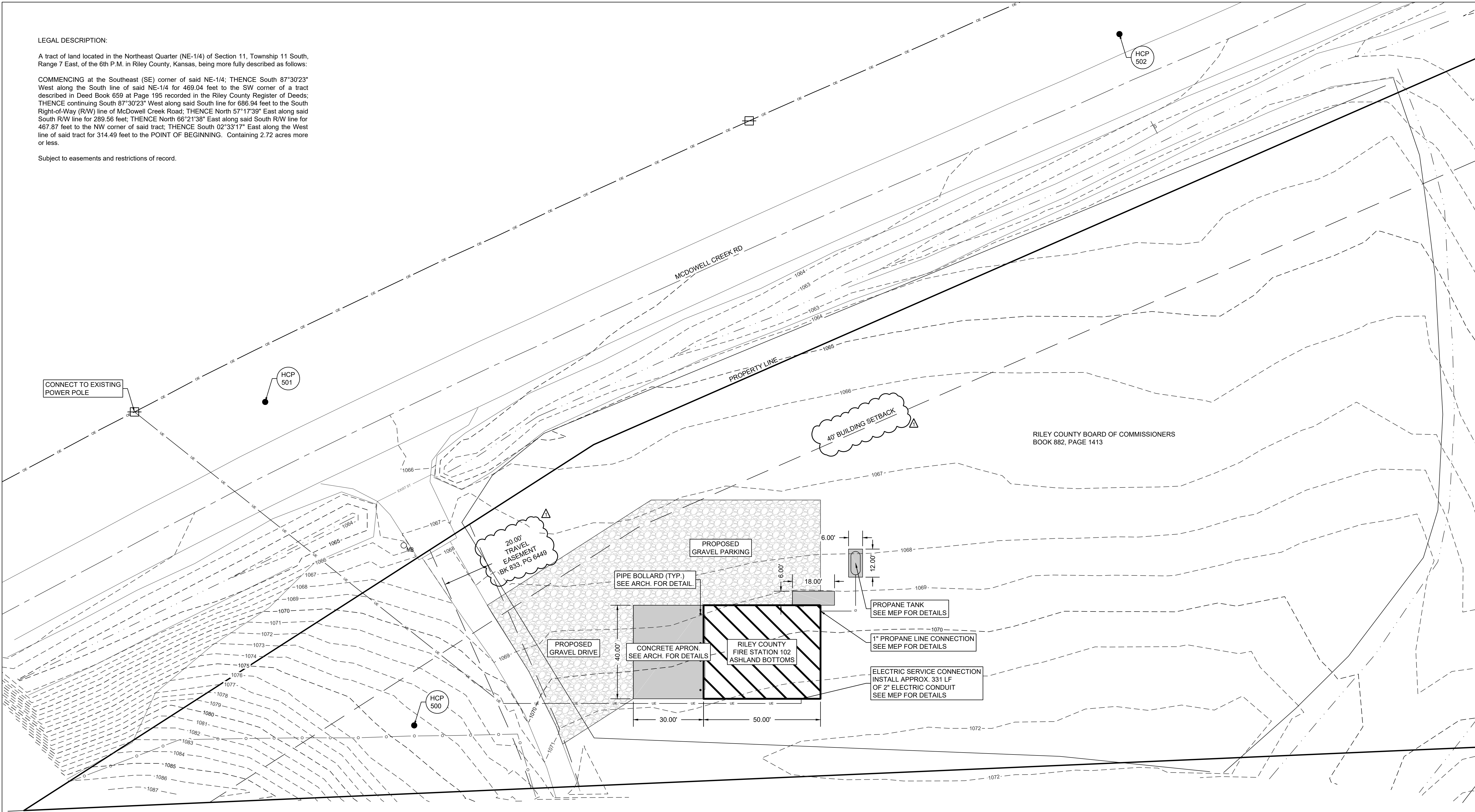
C3

LEGAL DESCRIPTION:

A tract of land located in the Northeast Quarter (NE-1/4) of Section 11, Township 11 South, Range 7 East, of the 6th P.M. in Riley County, Kansas, being more fully described as follows:

COMMENCING at the Southeast (SE) corner of said NE-1/4; THENCE South 87°30'23" West along the South line of said NE-1/4 for 469.04 feet to the SW corner of a tract described in Deed Book 659 at Page 195 recorded in the Riley County Register of Deeds; THENCE continuing South 87°30'23" West along said South line for 686.94 feet to the South Right-of-Way (R/W) line of McDowell Creek Road; THENCE North 57°17'39" East along said South R/W line for 289.56 feet; THENCE North 66°21'38" East along said South R/W line for 467.87 feet to the NW corner of said tract; THENCE South 02°33'17" East along the West line of said tract for 314.49 feet to the POINT OF BEGINNING. Containing 2.72 acres more or less.

Subject to easements and restrictions of record.



811

CALL BEFORE YOU DIG - DRILL - BLAST

KANSAS:
P: 800-344-7233
F: 316-687-3753
COLORADO:
P: 800-922-1987
F: 303-234-1712

The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.

LINETYPE LEGEND		
— G — G —	GAS/PROPANE (UNDERGROUND)	
— UE — UE —	ELECTRIC (UNDERGROUND)	
— OE — OE —	EXISTING OVERHEAD ELECTRIC	
— EXIST ST — EXIST ST —	EXISTING STORM SEWER	
— O — O — O — O —	EXISTING FENCE	
— — — — —	PROPERTY LINE	
— — — — —	BUILDING SETBACK	
- - - - - 1069 - - - - -	EXISTING 1' CONTOUR	
- - - - - 1070 - - - - -	EXISTING 5' CONTOUR	
— 1069 —	PROPOSED 1' CONTOUR	
— 1070 —	PROPOSED 5' CONTOUR	

SYMBOL LEGEND		
⊙	BENCHMARK	
●	HORIZONTAL CONTROL POINT (HCP)	
○ MB	MAIL BOX (EXISTING)	
⊞	POWER POLE (EXISTING)	

HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
500	285726.06	1704301.73	HCP
501	285864.36	1704238.03	HCP
502	286021.64	1704603.24	HCP
503	285734.94	1704791.26	HCP

NOTES:

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED ON THESE PLANS SHALL MEET OR EXCEED STANDARD SPECIFICATIONS OF RILEY COUNTY.
- SETBACKS NOTED AS PER THE RILEY COUNTY LAND DEVELOPMENT REGULATIONS

CAUTION - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

LICENSED PROFESSIONAL ENGINEER

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SMH CONSULTANTS, P.A.
2017 VANESTA PLACE, SUITE 110
MANHATTAN, KS 66503
(785) 776-0541
MKULESZA@SMHCONSULTANTS.COM

OWNER INFORMATION

RILEY COUNTY FIRE DISTRICT #1
222 RILEY AVENUE
OGDEN, KANSAS 66517
(785) 537-6333

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Manhattan, Kansas

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ISSUE RECORD:

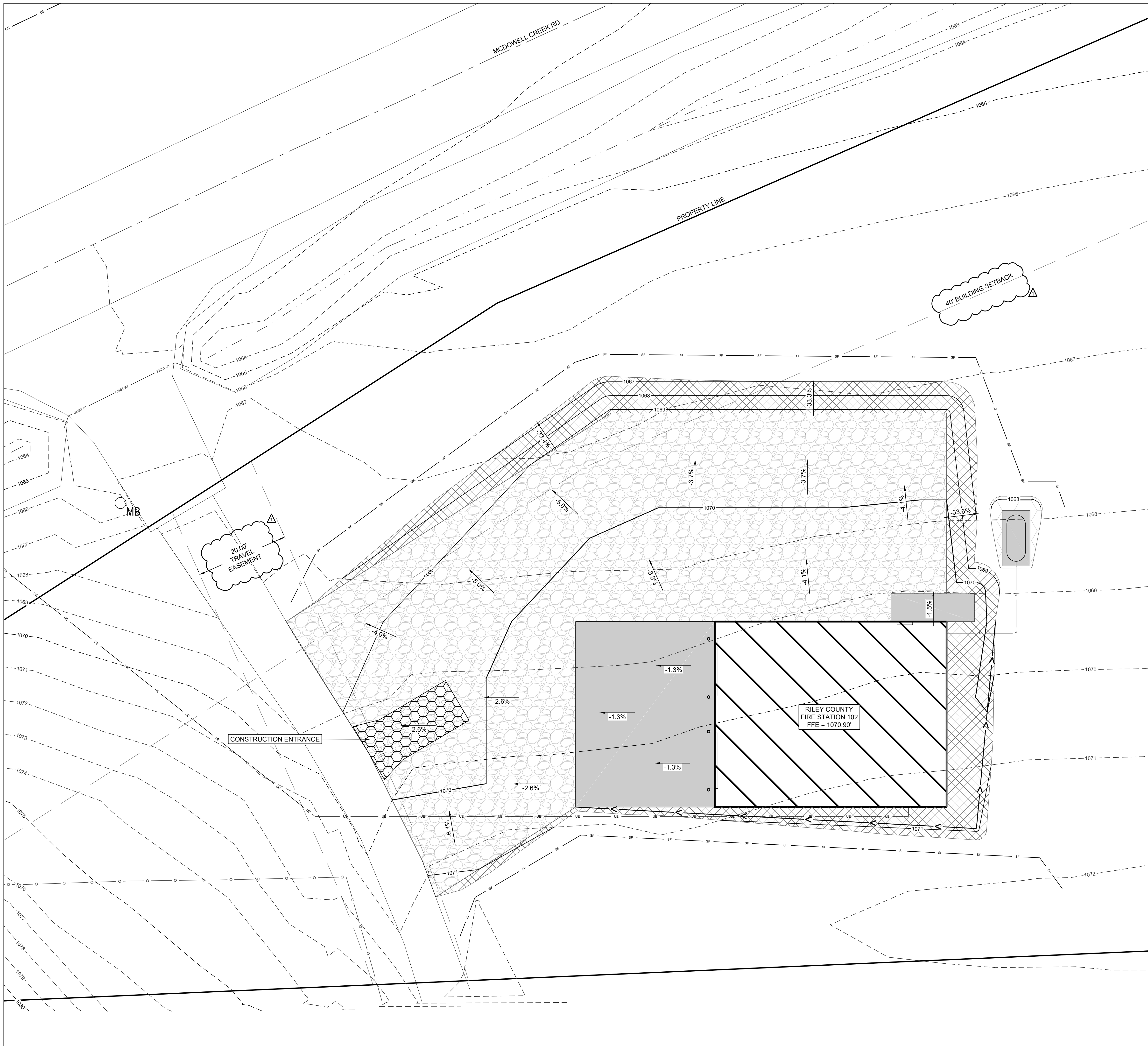
Construction Documents

REVISIONS:

1	COUNTY REVIEW 1.03.2022

ASHLAND BOTTOMS SITE PLAN

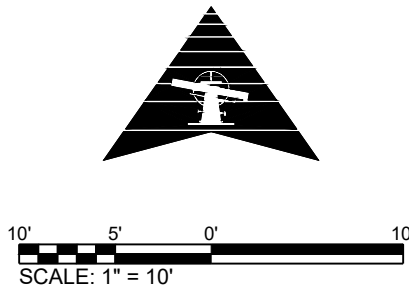
C4



LINETYPE LEGEND		
SSS	SSS	SANITARY SEWER SERVICE
WS	WS	WATER SERVICE
G	G	GAS/PROPANE (UNDERGROUND)
UE	UE	ELECTRIC (UNDERGROUND)
EXIST W	EXIST W	EXISTING WATER LINE
EXIST SS	EXIST SS	EXISTING SANITARY SEWER
FO	FO	EXISTING FIBER OPTIC
OE	OE	EXISTING OVERHEAD ELECTRIC
X	X	EXISTING ROCK FENCE
---		PROPERTY LINE
---		ROAD CENTERLINE
---		EXISTING 1' CONTOUR
---		EXISTING 5' CONTOUR
---		PROPOSED 1' CONTOUR
---		PROPOSED 5' CONTOUR

LEGEND	
SF	SILT FENCE
→	DRAINAGE PATH
---	1' CONTOUR INTERVAL (EXISTING GROUND)
---	5' CONTOUR INTERVAL (EXISTING GROUND)
---	1' CONTOUR INTERVAL (PROPOSED GROUND)
---	5' CONTOUR INTERVAL (PROPOSED GROUND)
---	FLEX TERRA FLEXIBLE GROWTH MEDIUM OR APPROVED EQUAL (PERMANENT SEEDING)
---	CONSTRUCTION ENTRANCE

- NOTES
- NATIVE VEGETATION SHALL BE MAINTAINED IN ALL AREAS AS STORM WATER POLLUTION PREVENTION WITH THE EXCEPTION OF THOSE AREAS NOTED ON THIS PLAN SHEET.
 - FLEX TERRA FLEXIBLE GROWTH MEDIUM, OR APPROVED EQUAL, SHALL BE UTILIZED ON ALL AREAS OF DISTURBED SOIL WHERE SLOPES EXCEED 8%.
 - CONTRACTOR SHALL DESIGNATE A TRUCK WASHOUT AREA.
 - CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.





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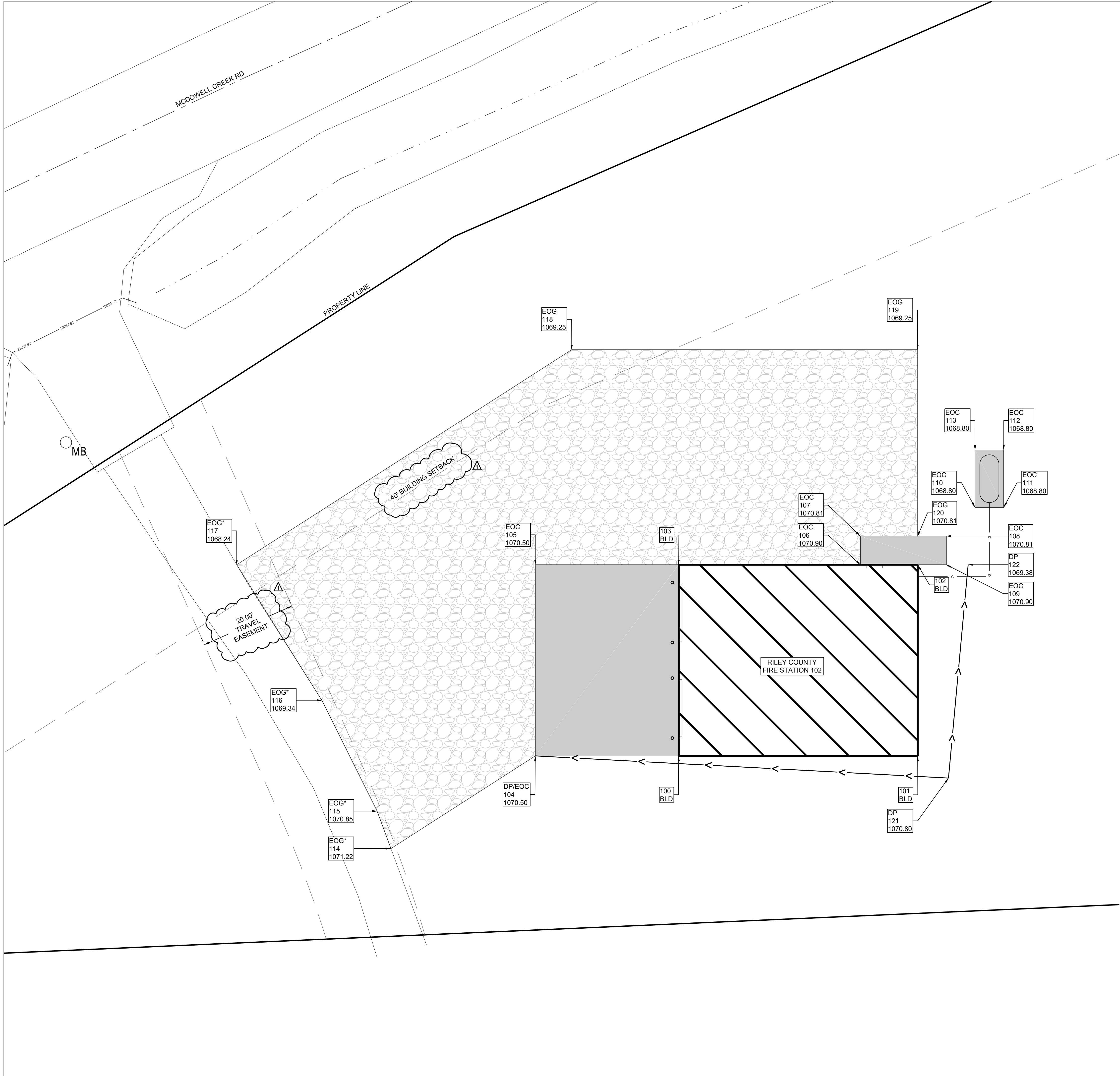
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Construction Documents

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1	COUNTY REVIEW 1.03.2022

ASHLAND BOTTOMS
GRADING PLAN

C5



BUILDING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	285737.45	1704425.44	1070.90	BLD
101	285737.45	1704475.44	1070.90	BLD
102	285777.45	1704475.44	1070.90	BLD
103	285777.45	1704425.44	1070.90	BLD

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
104	285737.45	1704395.44	1070.50	DP/EOC
105	285777.45	1704395.44	1070.50	EOC
106	285777.45	1704463.44	1070.90	EOC
107	285783.45	1704463.44	1070.81	EOC
108	285783.45	1704481.44	1070.81	EOC
109	285777.45	1704481.44	1070.90	EOC
110	285789.45	1704487.44	1068.80	EOC
111	285789.45	1704493.44	1068.80	EOC
112	285801.45	1704493.44	1068.80	EOC
113	285801.45	1704487.44	1068.80	EOC
114	285718.06	1704365.24	1071.22	EOG*
115	285725.90	1704362.35	1070.85	EOG*
116	285749.09	1704350.79	1069.34	EOG*
117	285777.45	1704332.99	1068.24	EOG*
118	285822.45	1704403.07	1069.25	EOG
119	285822.45	1704475.44	1069.25	EOG
120	285783.45	1704475.44	1070.81	EOG
121	285732.81	1704481.89	1070.80	DP
122	285777.45	1704486.00	1069.38	DP

- LEGEND
- BLD

BUILDING CORNER
- DP

DRAINAGE PATH
- EOC

EDGE OF CONCRETE
- EOG

EDGE OF GRAVEL
- *

MATCH EXISTING



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ASHLAND BOTTOMS
H&V CONTROL PLAN

C6

STRUCTURAL GENERAL NOTES**1. GENERAL**

- A. These notes and other drawing notes contained within, are provided to meet specific requirements and to supplement the contract specifications. These notes neither replace nor override the provisions and requirements for the contract specifications.
- B. Contractor shall coordinate all structural work with work shown on all other drawings.
- C. Contract drawings and specifications represent the finished structure. Contractor shall be responsible for all means and methods of construction including; but not limited to, shoring and temporary bracing. Contractor shall undertake all necessary measures to endure safety of all persons and structures at the site and adjacent to the site. Visits to the site by the owner or the engineer shall not relieve the contractor of such responsibility.
- D. If certain features are not fully shown or called for on the contract drawings or specifications, their construction shall be of the same character as for similar conditions that are shown or called for, with the approval of the contracting officer. Where sections vary, contractor shall provide smooth transitions between them, unless noted otherwise.
- E. All products shall be installed in accordance with the manufacturers' written instructions and recommendations, unless noted otherwise.

2. STRUCTURAL DESIGN CRITERIA

- A. The structural design loading was determined using the latest edition of the International Building Code and ASCE-7 (Minimum Design Loads for Buildings and Other Structures), the following design loads were used for the building design in addition to the dead weight of the structure, walls, ceilings, roofing, finishes, etc.:
- B. Gravity Loads
- C. Lateral Loads
- Roof (snow load): 25 psf (ground snow load)
 - Wind Criteria
 - Wind Velocity: 115 mph
(The basic wind speed corresponds to a 3 sec. gust at 33 ft. above ground.)
 - Exposure Category: C
 - Internal Pressure Coefficient: $\pm .55$
 - Importance Factor: 1.0
 - Seismic Criteria
 - Site Class: D
 - Seismic Design Category: B
 - Importance Factor: 1.0
 - Ss: 0.158 g
 - S1: 0.057 g
- D. Foundation Criteria
- Wall & Column Footings: 2000 PSF (Allowable Bearing)

3. FOUNDATIONS

- A. Footings
- Column and wall footings shall bear below any fill material and on stiff to very stiff native clay soils capable of safely supporting a specified allowable bearing pressure. The consulting engineering geologist shall verify the proper depth, quality of bearing material, and condition of bottom of excavation for all footings prior to placing of concrete.
 - In the event a satisfactory bearing material is encountered at a lower elevation than that shown, the base of spread footings shall be lowered and the footing constructed with increased depth, placing the noted footing bars 2' clear from the bottom and maintaining the noted top of footing as originally detailed. Reinforcing in wall footings which require deepening shall be maintained at its original location with the base of the footing excavation lowered as required. As an alternative to lowering the bottom of footings, excavations down to suitable bearing material may be filled with "flowable fill" back to proper bearing elevation. In no event shall the wall or column footings be constructed with a depth less than that shown in the design drawings.
 - All footings shall be poured to lines of neat excavation without formwork.

4. STRUCTURAL CONCRETE AND REINFORCING STEEL

- A. The structural concrete has been designed in accordance with the latest edition of ACI "Building Code for Reinforced Concrete", ACI 318. All concrete work shall conform to ACI "Specifications for Structural Concrete in Buildings", ACI 301.
- B. All structural concrete shall be normal weight concrete and shall have a minimum design compressive strength, f_c , of 4000 psi at 28 days with a minimum 7 day strength of 2500 psi. Concrete for exterior work such as sidewalks, drives, curbs, etc., shall be air-entrained concrete (6%± 1%) having a minimum design compressive strength, f_c , of 4500 psi at 28 days and a maximum water/cement ratio of 0.45.
- C. All reinforcing bars shall conform to ASTM A615-85 Grade 60. Welded wire reinforcement shall conform to ASTM A185 and shall be furnished in flat sheets.
- D. The minimum concrete coverage for reinforcing, unless otherwise noted, shall be 3/4" for formed slabs, 1 1/2" for ties and stirrups, 2" for formed walls and 3" for footings and other concrete deposited directly against earth. Bar supports shall be furnished in accordance with recommendations of ACI 315 (Detailing Manual). Welded wire reinforcement in slabs on grade shall be supported by metal chairs with sub-grade plates or on concrete bricks at 3'-0 cts. each way. "Pulling up" of fabric after concrete is deposited will not be allowed. All bars shall lap with the proper development length as specified in ACI 318 at splices unless otherwise noted. Welded wire reinforcement shall be spliced with a minimum lap of one mesh space plus 2" between outermost cross wires for slabs on grade.
- E. It shall be the responsibility of the Contractor that the bar lengths of all bars conform to applicable notes and details and that the actual number of bars used conforms to the noted spacing.

5. SPECIAL CONSTRUCTION

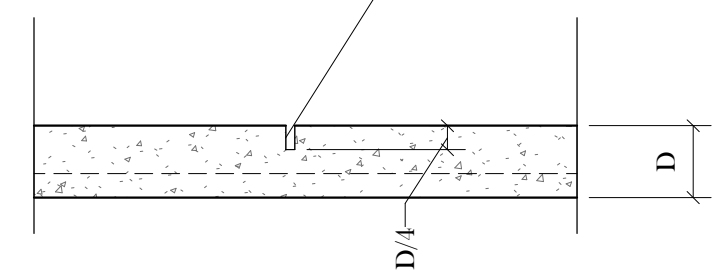
- A. Pre-Engineered Metal Building (PEMB)
- Metal building system shall be provided by a manufacturer who is a member of MBNA and holds an AISC category MB certification.
 - Metal building system shall be installed by a qualified erector who is acceptable to the manufacturer.
 - Metal building system shall be provided as delegate-engineered system in accordance with the requirements of the contract documents.
 - The contractor shall submit shop drawings and complete structural design analysis of the metal building system, including development of loads, description of individual and combined load cases, description of materials, comparison of permitted stresses versus computed stresses, calculation of deflections, anchor bolt layout, and foundation reactions.
 - Calculations and shop drawings shall bear the seal of a professional engineer licensed in Kansas.
 - Shop drawing approval shall be obtained prior to placing any foundations of fabrication of foundation reinforcing steel.
 - PEMB manufacturer shall design building structure for the loads shown section 2 - Structural Design Criteria of this general note, in accordance with the design standards listed. All loads shall be considered minimums and are subject to verification and coordination by the PEMB manufacturer and the contractor. If actual loads of items are higher than those shown in section 2, the higher loads shall be used.
 - Metal building system shall be designed and furnished to support any hanging loads such as mechanical equipment or movable walls, etc. in addition to the design load criteria prescribed in Section 2 "Structural Design Criteria" and the latest edition of the International Building Code IBC.
 - Any redesign of the foundation system required as a result of changes in the loads or dimensions of the metal building system shall be approved by the Structural Engineer. Any additional cost of redesign by the Structural Engineer shall be the responsibility of the General Contractor.

6. SPECIAL INSPECTIONS

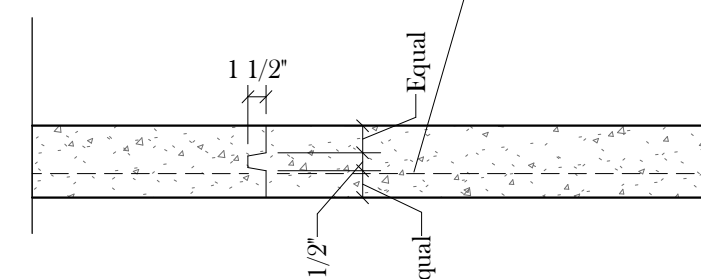
- A. Required in accordance with IBC Section 1704.
- Frequency: periodic unless specifically specified by the principal code of record to be continuous.
 - Special inspector: Qualified person who has demonstrated competence to the satisfaction of the contracting officer.
- B. Soils: Site preparation, bearing services fill materials and placement, and evaluation of in-place density.
- C. Concrete Construction
- Mix design and materials
 - Installation of embedded anchor bolts
 - Placement, curing, and protection techniques
 - Sampling and testing during placement
 - Strength verification
 - Exceptions: Non-structural slab on grade
 - Placement of all piles and pile caps
- D. Reinforcing steel
- Type, size, and grade
 - Placement
- E. Steel Construction
- In-plant fabrication or fabrication certification
 - Materials, including weld fillers and high strength bolts
 - Welding and high strength bolt installation
 - Adhesive anchors
 - Framing and joint details, including stiffeners
 - Joist placement location, size and connections
 - Verify placement of all structural embeds

Control Joint

Saw D/4 deep or use joint insert. Mesh continuous through joint.

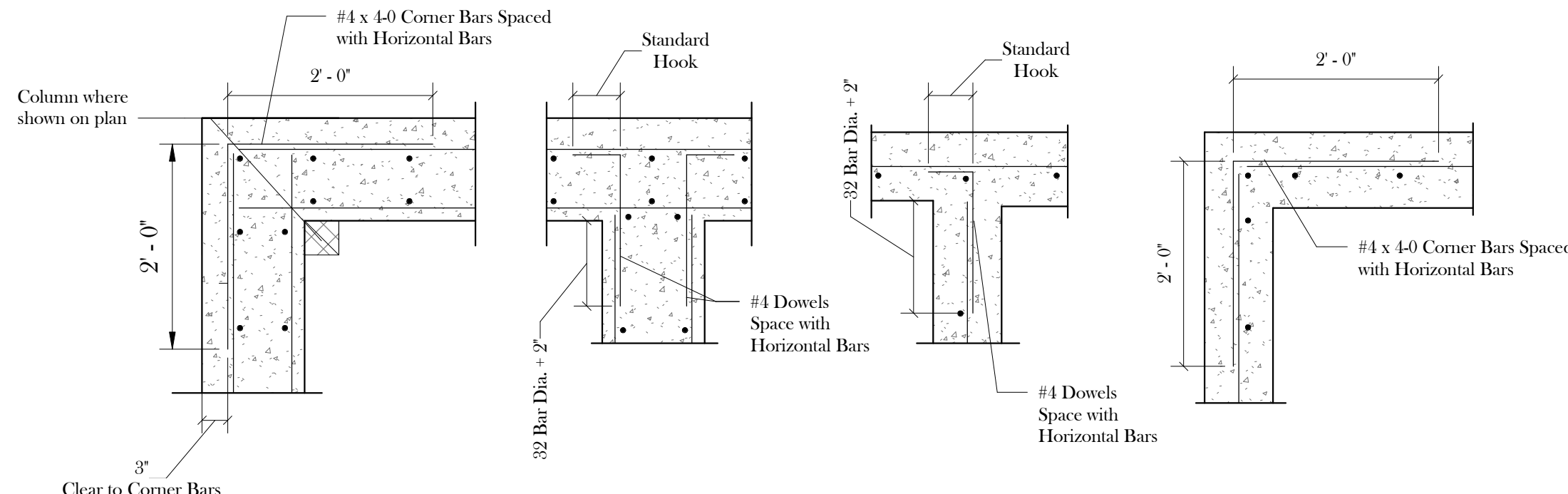
**Construction Joint**

Mesh continuous at joint



Note:
All slabs on grade shall be constructed with control joints in square or rectangular patterns with a length to width ratio of 1 or less. Control joints shall be spaced no further than 20'-0 apart. At the contractors option a construction joint may be used in lieu of any control joint.

1 Slab Control Joint
3/4" - 1'-0"

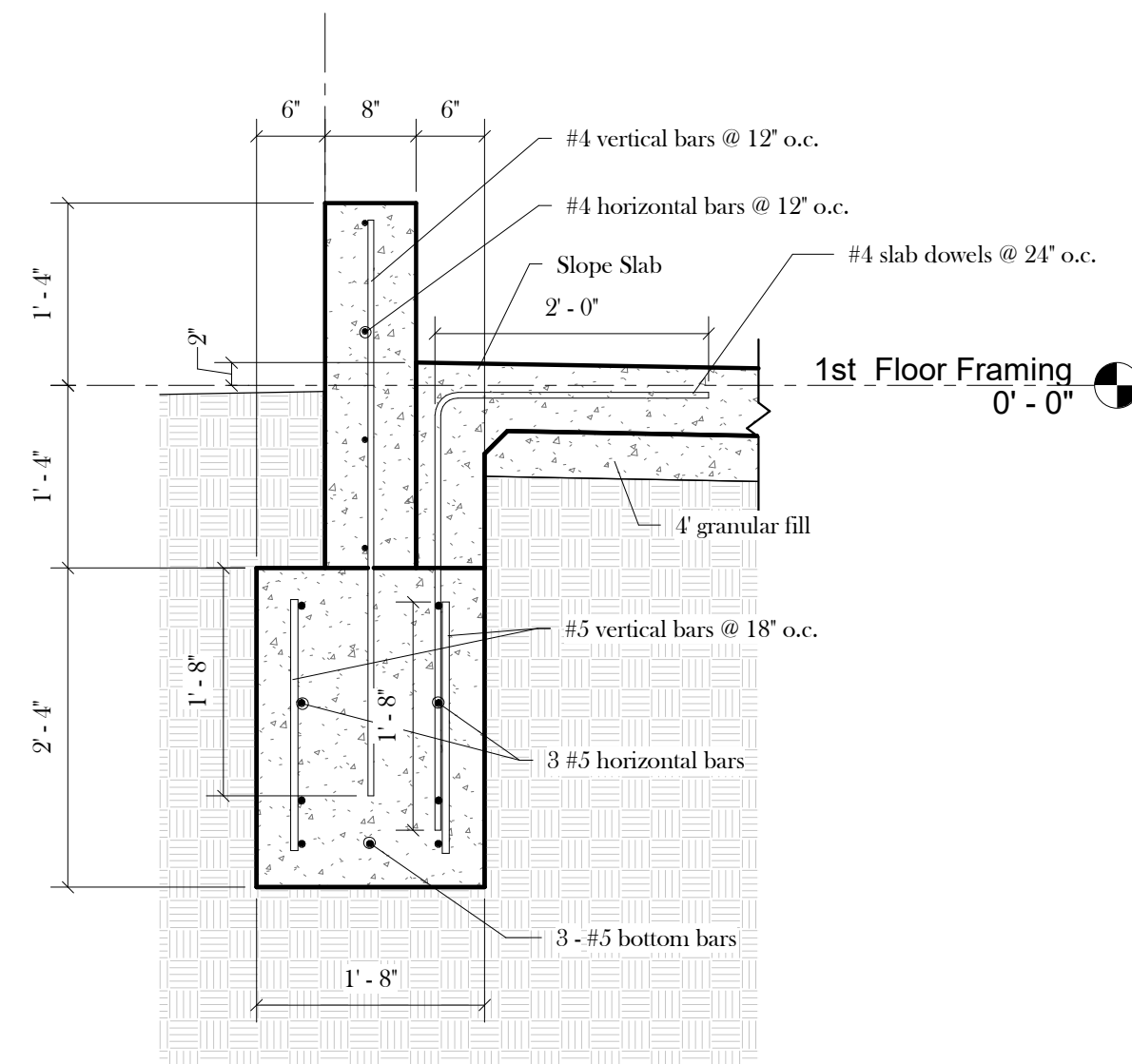


Walls With Two Curtains of Steel

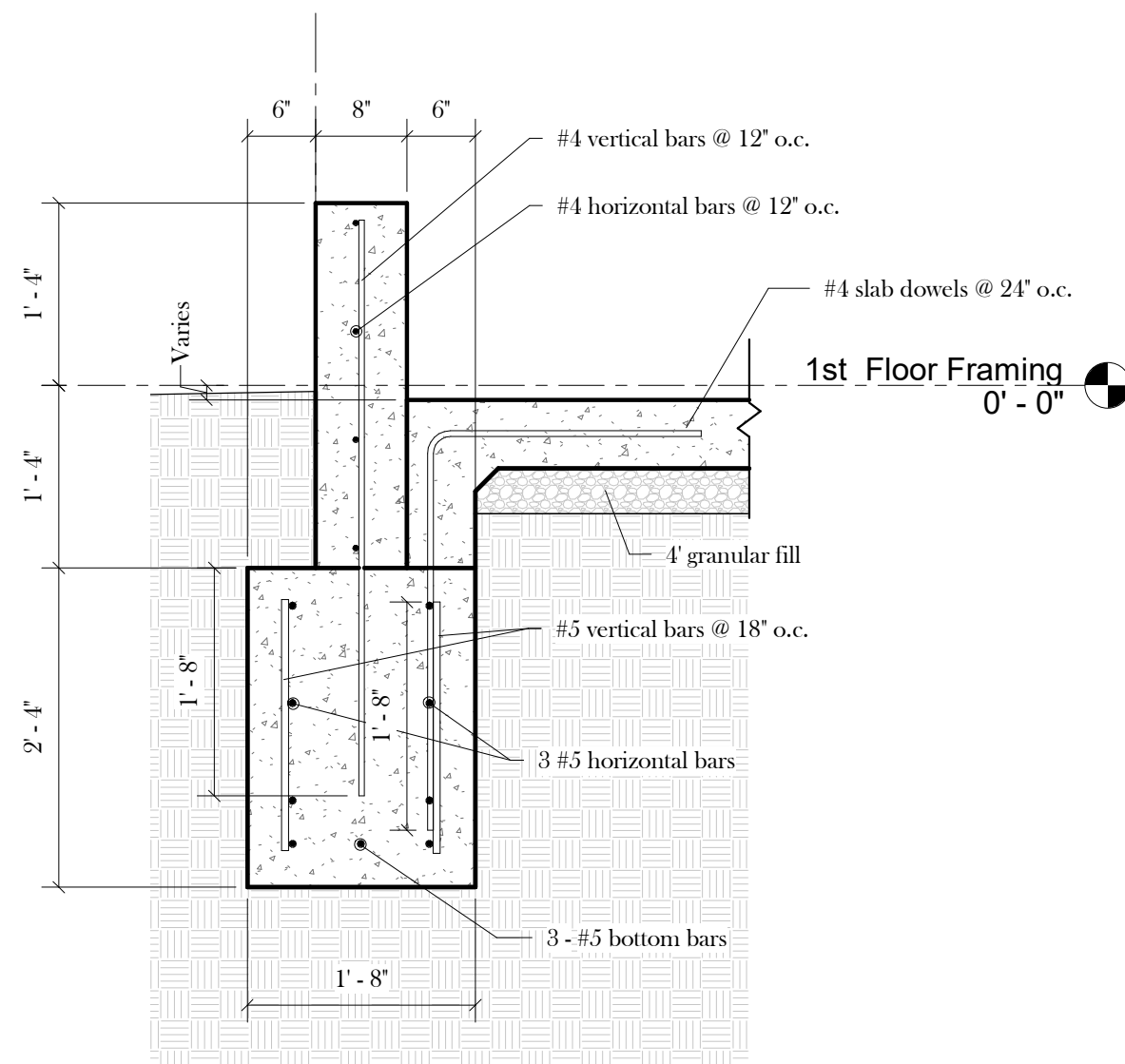
Walls With One Curtain of Steels

Note:
Provide continuous vertical 2x4 key in pour joint at any wall intersection poured in two pours.

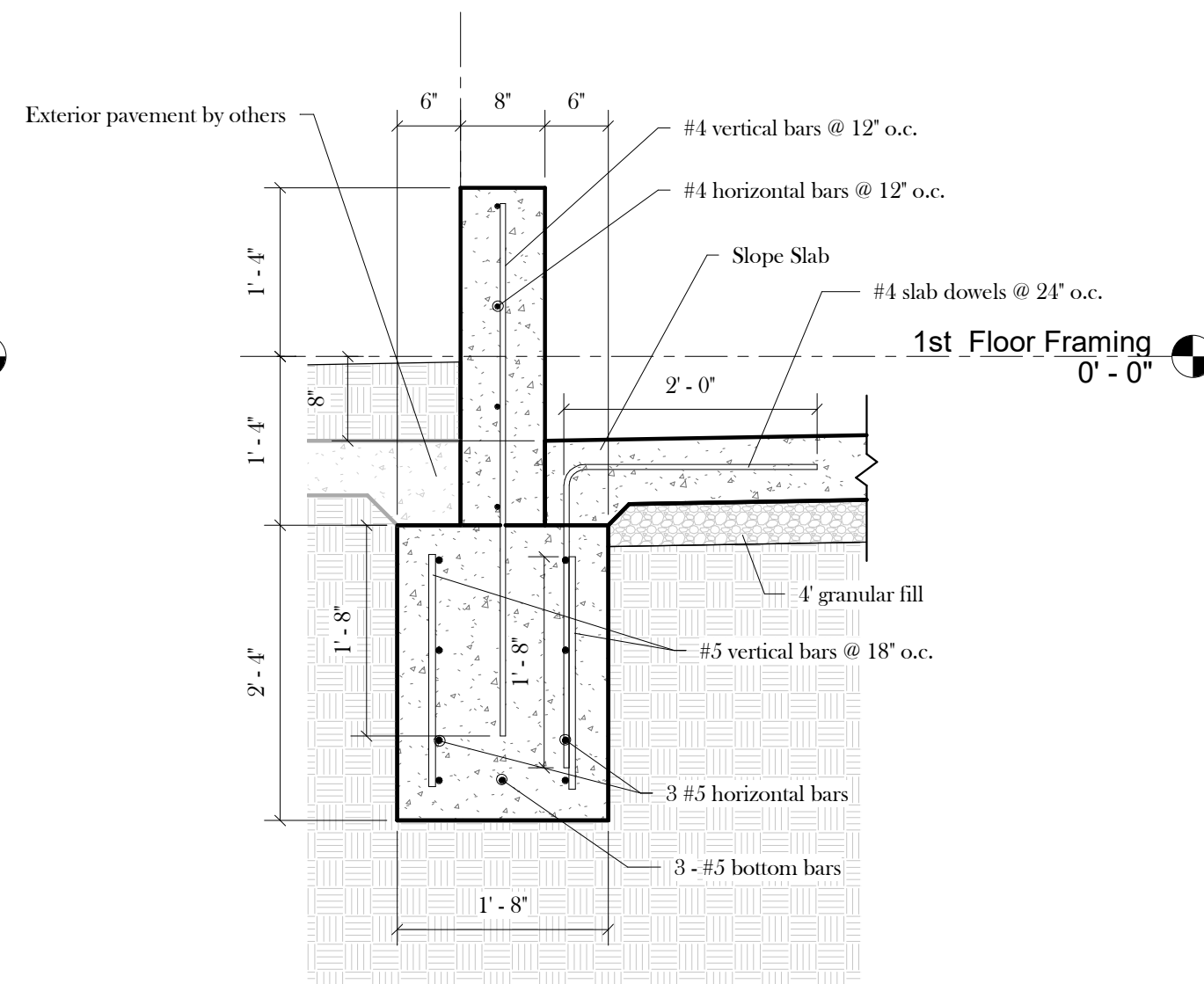
2 Typical Foundation Wall Corners
3/4" - 1'-0"



3 Stem Wall Detail @ North End Wall
3/4" - 1'-0"



4 Stem Wall Detail @ Side Walls
3/4" - 1'-0"



5 Stem Wall Detail @ South End Wall
3/4" - 1'-0"



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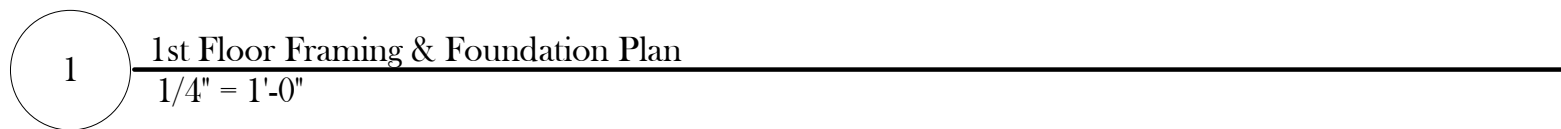
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DATE: 2.10.2023

ISSUE RECORD:
Construction Documents

REVISIONS:

General Notes & Details

S0.01



RE: Metal Building drawings

See metal building drawings for anchor bolt size & Layout

See Stem wall detail for wall reinforcement

Varies

Depth

1'-0"

#5 hairpin bars

See foundation plan for dimensions

Scheduled Elevation

Top of footing

Granular fill

All column footings shall be centered under columns

See footing schedule for reinf.

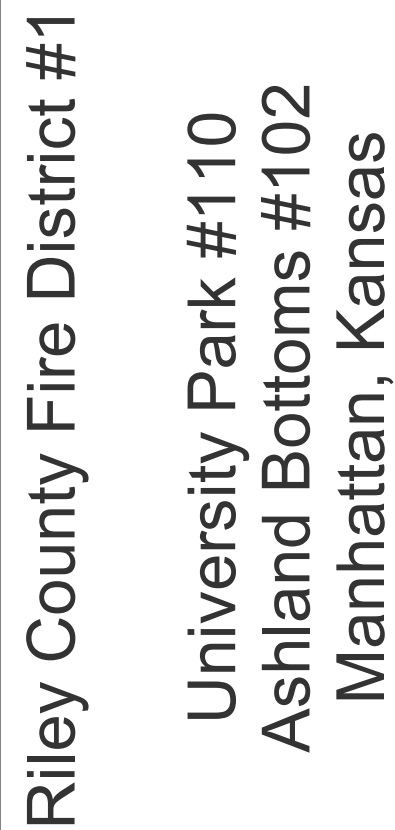
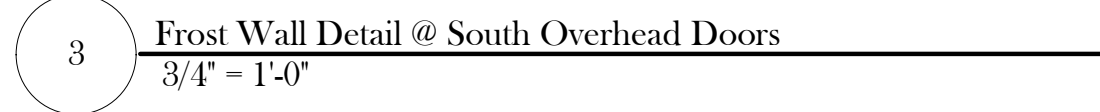
See Footing schedule for dimensions

Metal building by others

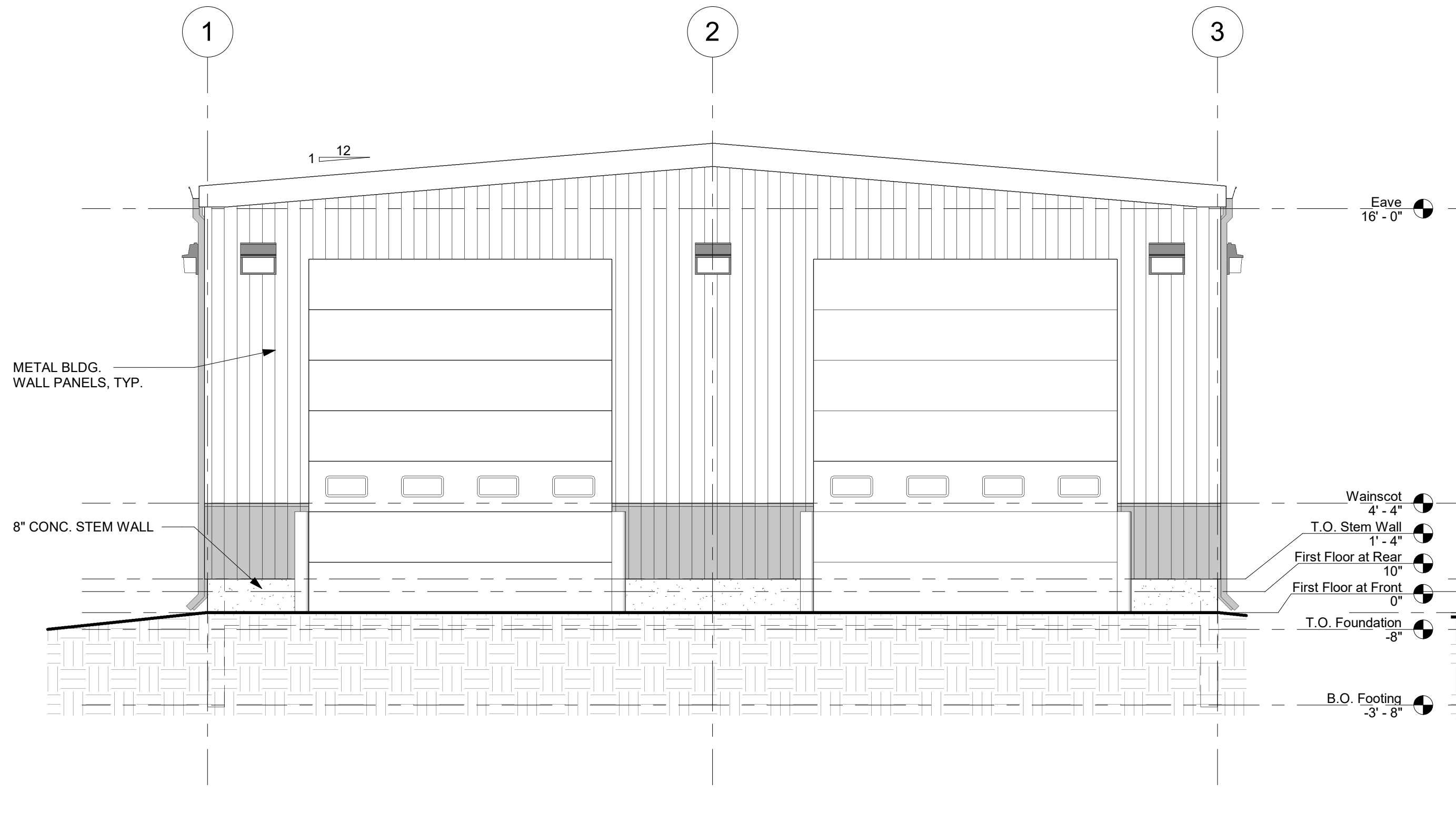
A

Isolated Footing - Type A

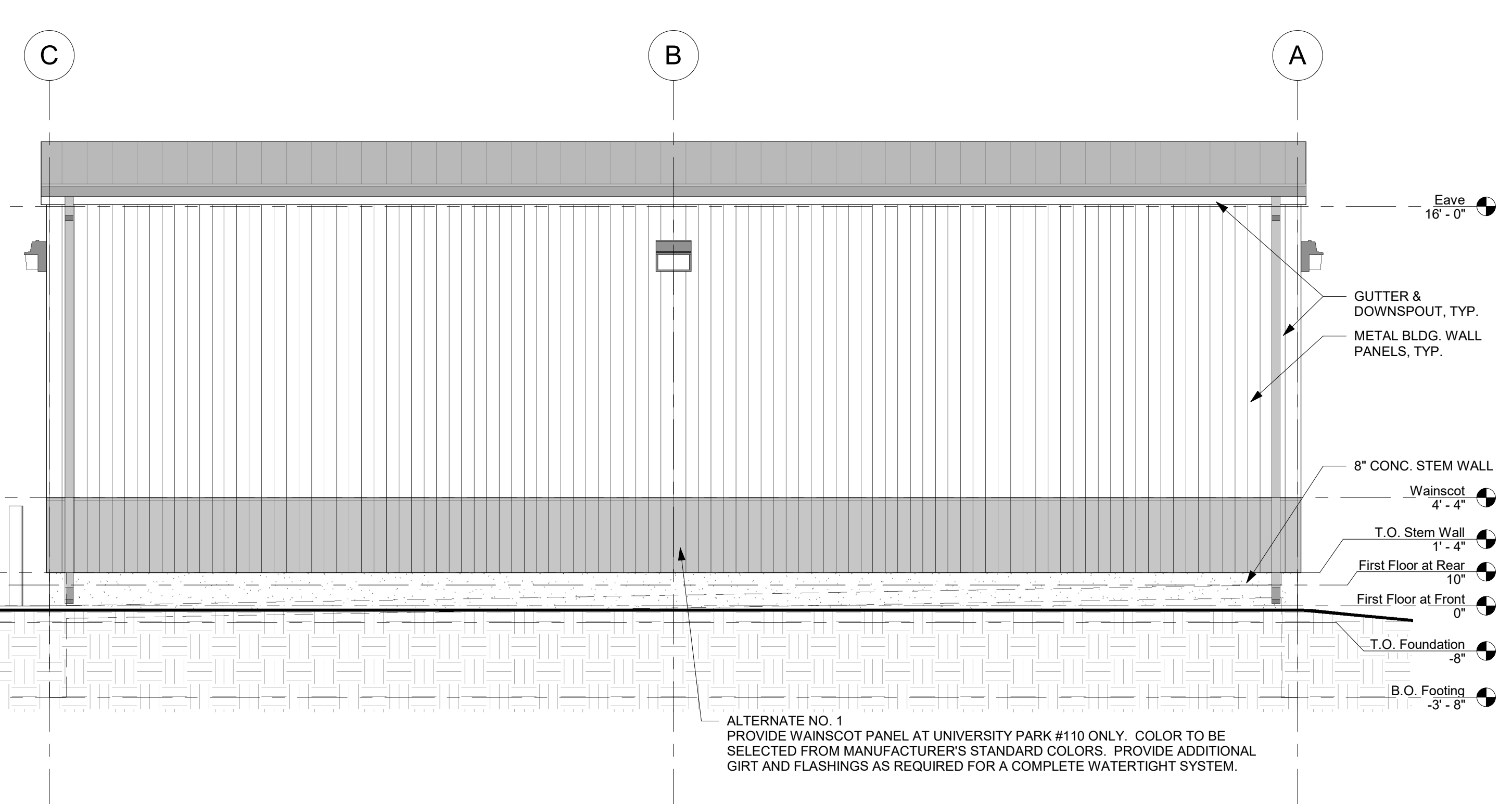
$3/4" = 1'-0"$



S1.01

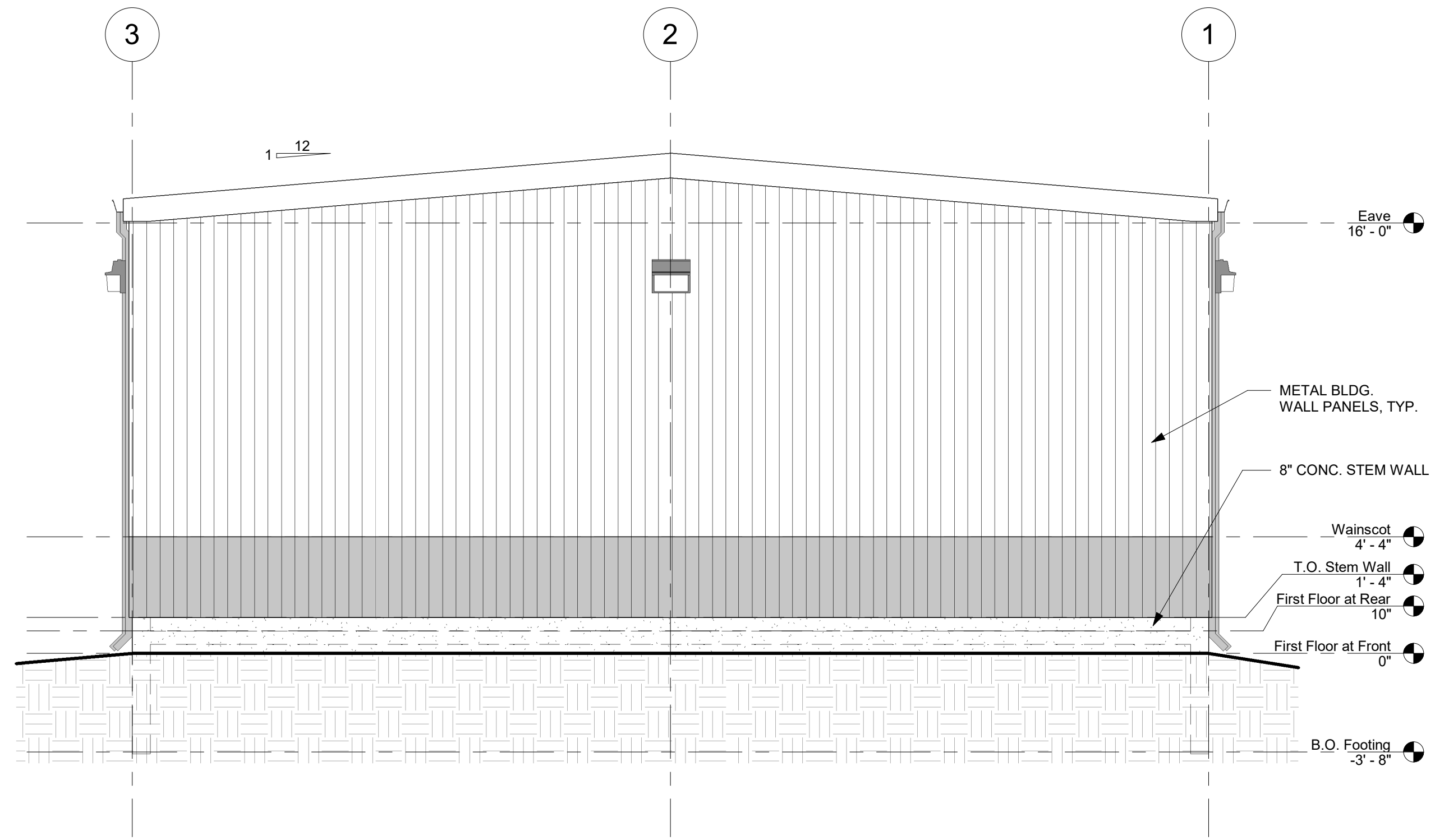


1 Front Elevation
A4.01 1/4" = 1'-0"

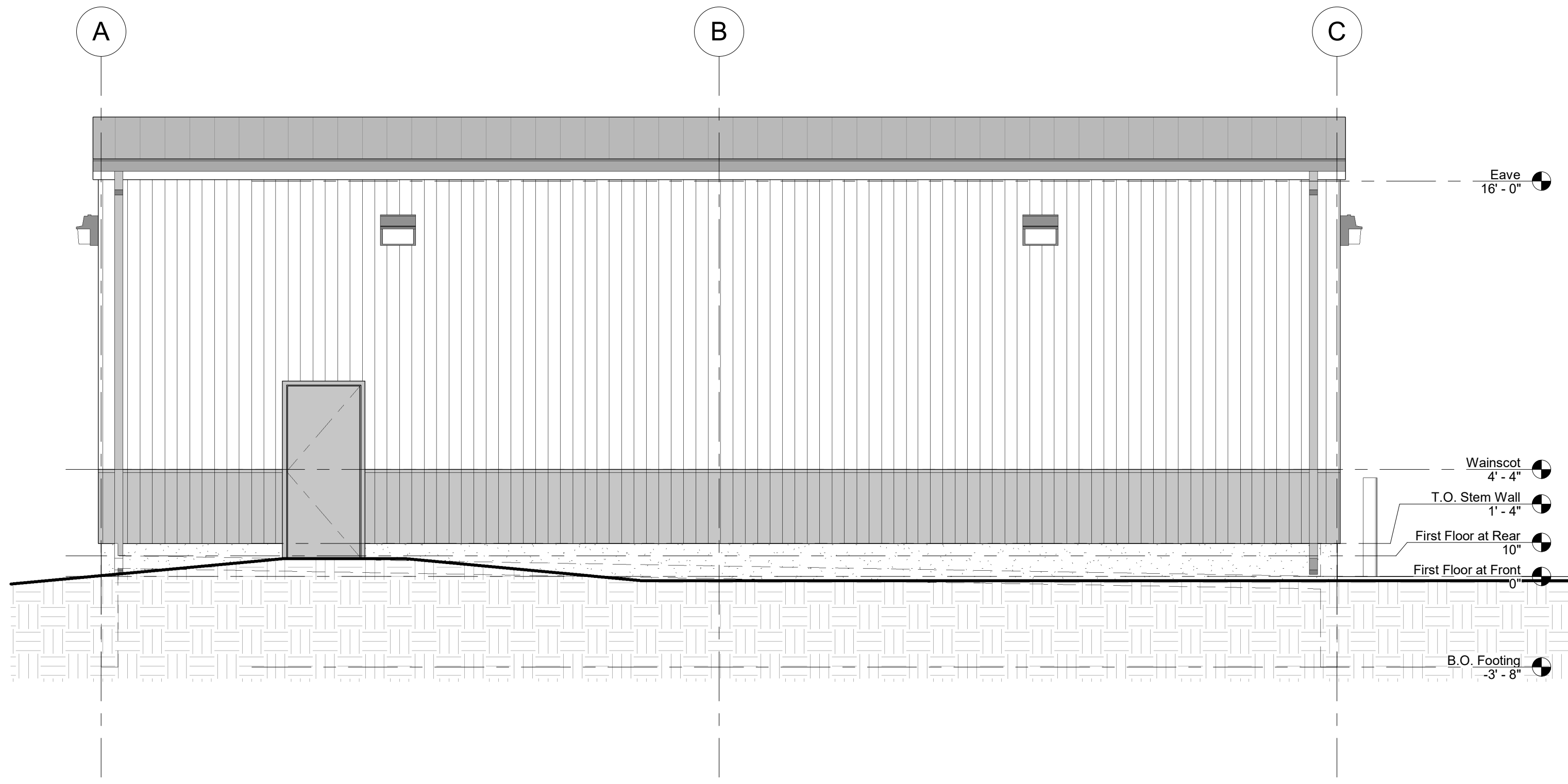


2 Right Side Elevation
A4.01 1/4" = 1'-0"

ALTERNATE NO. 1
PROVIDE WAINSCOT PANEL AT UNIVERSITY PARK #110 ONLY. COLOR TO BE
SELECTED FROM MANUFACTURER'S STANDARD COLORS. PROVIDE ADDITIONAL
GIRT AND FLASHINGS AS REQUIRED FOR A COMPLETE WATERTIGHT SYSTEM.



3 Rear Elevation
A4.01 1/4" = 1'-0"



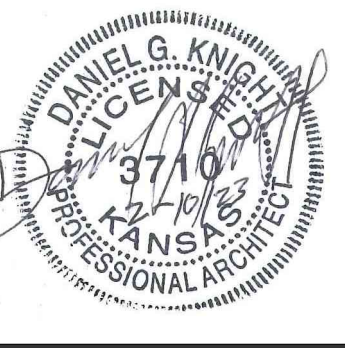
4 Left Side Elevation
A4.01 1/4" = 1'-0"



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Manhattan, Kansas

JOB NO: 21-022
DATE: 2.10.2023

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Exterior Elevations

A4.01

SECTION 220000 - PLUMBING / SECTION 230000 - MECHANICAL SPECIFICATIONS

22/23-1. GENERAL REQUIREMENTS

22/23-1-A. MECHANICAL REQUIREMENTS

1. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING MECHANICAL PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
2. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.
3. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
4. ALL MATERIALS SHALL BE NEW & SHALL BARE UL LABEL WHERE APPLICABLE.
5. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
6. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
7. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
8. ALL MATERIALS INSTALLED IN PLUMBING SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX 10 OR HIGHER THAN SPECIFIED ACCORDINGLY. EXCEPT PLACING.
9. REQUIREMENTS UNDER DIVISION ONE & GENERAL & SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACCQUAINTED W/ ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OF WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, & LABOR REQUIRED TO COMPLETE ENTIRE SYSTEM AS REQUIRED BY DRAWINGS & SPECIFICATIONS.
10. THE SPECIFICATIONS & DRAWINGS OF PROJECT ARE COMPLEMENTARY, & PORTIONS OF WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN EVENT OF DISCREPANCIES, NOTIFY ENGINEER & REQUEST CLARIFICATION PRIOR TO PROCEEDING W/ WORK INVOLVED.

22/23-1-B. DEFINITIONS

1. WHENEVER USED IN THESE SPECIFICATIONS OR DRAWINGS, FOLLOWING TERMS SHALL HAVE INDICATED MEANINGS:
 - 1.1. INSTALL: TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING: UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION & SIMILAR OPERATIONS.
 - 1.2. PROVIDE: TERM "PROVIDE" MEANS TO FURNISH & INSTALL, COMPLETE & READY FOR INTENDED USE. IF FURNISHED BY OWNER OR FURNISHED BY OTHERS, ITEM WILL BE FURNISHED BY OWNER OR OTHERS. IT IS TO BE INSTALLED & CONNECTED UNDER REQUIREMENTS OF THIS DIVISION, COMPLETE & READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION & OPERATION. INSTALLATION SHALL BE INCLUDED UNDER GUARANTEE REQUIRED BY THIS DIVISION.
 - 1.3. ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS ENGINEER OF RECORD & DESIGN PROFESSIONAL FOR THIS DIVISION. HE IS CONSULTANT TO, & AN AUTHORIZED REPRESENTATIVE OF, ARCHITECT, AS DEFINED IN GENERAL &/OR SUPPLEMENTARY CONDITIONS, WHEN USED IN THIS DIVISION. IT MEANS INCREASED INVOLVEMENT BY, & OBLIGATIONS TO, ENGINEER, IN ADDITION TO INVOLVEMENT BY & OBLIGATIONS TO, "ARCHITECT".
 - 1.4. AHJ: LOCAL CODE &/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER WORK.
 - 1.5. THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOSLY & SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO ENGINEER AS EQUIVALENT TO ITEM OR MANUFACTURER SPECIFIED".
 - 1.6. THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL, ETL, CSA), & ACCEPTABLE TO AHJ OVER THIS PROJECT.

22/23-1-C. PREBID SITE VISIT

1. PRIOR TO SUBMITTING BID, VISIT SITE OF PROPOSED WORK & BECOME FULLY INFORMED AS TO CONDITIONS UNDER WHICH WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER & ABOVE CONTRACT PRICE.

22/23-1-D. MATERIAL & WORKMANSHIP

1. PROVIDE NEW MATERIAL, EQUIPMENT, & APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN OF BEST QUALITY MATERIALS USED FOR PURPOSE OF THIS PROJECT. PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF SYSTEM &/OR EQUIPMENT AS IT RELATES TO FACILITY AS WHOLE; OPERATION & MAINTENANCE PROCEDURES & SCHEDULES RELATED TO STARTUP & SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE & APPROPRIATE OPERATOR INTERVENTION; & REVIEW OF DATA INCLUDED IN OPERATION & MAINTENANCE MANUALS. SUBMIT CERTIFICATION LETTER TO ARCHITECT STATING THAT OWNER'S DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES & SUBJECT OF TRAINING. CONTRACTOR & OWNER'S REPRESENTATIVE SHALL SIGN CERTIFICATION LETTER INDICATING AGREEMENT THAT TRAINING HAS BEEN PROVIDED. SCHEDULE OWNER TRAINING W/ AT LEAST 7 DAYS' ADVANCE NOTICE.
2. THESE REQUIREMENTS MAY SHALL ALSO BE PROVIDED TO THE OWNER IN A WELL ORGANIZED PDF ELECTRONIC SUBMISSION & DELIVERED ON A DVD OR THUMBDRIVE.

22/23-1-E. COORDINATION

1. COORDINATE WORK W/ OTHER TRADES SO VARIOUS COMPONENTS OF SYSTEMS WILL BE INSTALLED AT PROPER TIME WILL FIT AVAILABLE SPACE & WILL ALLOW PROPER SERVICE ACCESS FOR MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO OWNER.
2. UNLESS OTHERWISE INDICATED, GENERAL CONTRACTOR WILL PROVIDE CHASES & OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH GENERAL CONTRACTOR W/ INFORMATION WHERE CHASES & OPENINGS ARE REQUIRED.
3. KEEP INFORMED AS TO WORK OF OTHER TRADES ENGAGED IN CONSTRUCTION OF PROJECT & EXECUTE WORK IN MANNER AS TO NOT INTERFERE W/ OR DELAY WORK OF OTHER TRADES. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE OF DIMENSIONS.
4. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING & INSPECTION.
5. PROVIDE MATERIALS W/ TRIM THAT WILL PROPERLY FIT TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT INTENDED TO DESIGNATE REQUIRED TRIM.

22/23-1-F. ORDINANCES & CODES

1. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT MINIMUM, BE IN CONFORMANCE W/ APPLICABLE NATIONAL, STATE & LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED & ASSOCIATED.
2. INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE W/ CURRENT APPLICABLE CODES ADOPTED BY LOCAL AHJ INCLUDING ANY AMENDMENTS & STANDARDS AS SET FORTH BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS' LABORATORIES (UL), OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) & OTHER NATIONAL STANDARDS & CODES WHERE APPLICABLE.
3. WHERE CONTRACT DOCUMENTS EXCEED REQUIREMENTS OF REFERENCED CODES, STANDARDS, ETC., CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
4. PROCURE & PAY FOR PERMITS & LICENSES REQUIRED FOR ACCOMPLISHMENT OF WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN PAY FOR & FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF LAW.

22/23-1-G. PROTECTION OF EQUIPMENT & MATERIALS

1. STORE & PROTECT FROM DAMAGE EQUIPMENT & MATERIALS DELIVERED TO JOB SITE. COVER AS REQUIRED TO PROTECT FROM DIRT & DAMAGE. PLUG OR CAP OPEN ENDS OF DUCTWORK & PIPING SYSTEMS WHILE STORED & INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT ENTRANCE OF DEBRIS INTO SYSTEMS. EQUIPMENT & MATERIAL THAT HAS BEEN DAMAGED DURING CONSTRUCTION ACTIVITIES WILL BE REJECTED, & CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT & MATERIAL OF LIKE KIND. KEEP PREMISES BROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC. SHALL HAVE NEAT &

CLEAN APPEARANCE AT COMPLETION.

22/23-1-H. SUBSTITUTIONS

1. THE BASE BID SHALL INCLUDE ONLY PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN DRAWINGS. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BID UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO DATE FOR RECEIPT OF BIDS. REQUEST SHALL INCLUDE NAME OF MATERIAL OR EQUIPMENT FOR SUBSTITUTION & COMPLETE DESCRIPTION OF PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE & TEST DATA & OTHER INFORMATION FOR EVALUATION. STATEMENT SETTING FORTH CHANGES IN OTHER MATERIALS, EQUIPMENT OR OTHER WORK THAT INCORPORATION OF SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED.
2. THE BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTE IS UPON PROPOSER. ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF PROPOSED SUBSTITUTE SHALL BE FINAL. TERMS APPROVED, "APPROVED EQUAL", & "EQUAL" REFER TO APPROVAL BY ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE.
3. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL PRIOR TO AWARD OF CONTRACT. COORDINATE & VERIFY W/ OTHER TRADES WHETHER OR NOT SUBSTITUTED EQUIPMENT CAN BE INSTALLED AS SHOWN ON CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. INCLUDE ADDITIONAL COSTS FOR ARCHITECTURAL & ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.

22/23-1-I. SHOP DRAWINGS

1. EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT, ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS & SHEET METAL DUCTWORK FABRICATION DRAWINGS, BEFORE SUBMITTING SHOP DRAWINGS VERIFY EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE & SUITABLE FOR INTENDED USE & WILL FIT AVAILABLE SPACE & ALLOW AMPLE ROOM FOR MAINTENANCE. ENGINEER'S CHECKING & SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, MATERIALS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS. PROCEED W/ PROCUREMENT & INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM.
2. SUBMITTAL DATA SHALL BE NEATLY ORGANIZED, IDENTIFIED & INDEXED. EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED & ACCESSORIES INDICATED. LABEL CATALOG DATA W/ EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON DRAWINGS & INCLUDE PERFORMANCE, CURVES, CAPACITIES, SIZES, MATERIALS, FINISHES, WIRING DIAGRAMS & DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT IMPRACTICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF ABOVE MENTIONED REQUIREMENTS ARE NOT MET.
3. REQUIREMENTS SHALL BE MET ELECTRONICALLY & SUBMITTED AS PDF IN FILES LESS THAN 10MB.
4. CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT STAMPED DRAWINGS HAVE BEEN CHECKED BY CONTRACTOR, COMPLY W/ DRAWINGS & SPECIFICATIONS, & HAVE BEEN COORDINATED W/ OTHER TRADES.
5. TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT PROJECT SCHEDULE. ALLOW FOR TWO WEEKS A/E REVIEW TIME, PLUS DUPLICATION OF THIS TIME FOR RESUBMITTALS. IF REQUIRED, TRANSIT SUBMITTALS AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED BEFORE CONSTRUCTION STARTS. ENGINEER'S SUBMITTAL REVISIONS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING SATISFACTORILY. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. CALIBRATE, SET, & ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, & OPERATION OF SAFETY CONTROLS.

22/23-1-J. OPERATION & MAINTENANCE INSTRUCTIONS

1. COLLECT & COMPLETE COMPLETE BROCHURE OF EQUIPMENT FURNISHED & INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL & MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, APPROVED SHOP DRAWINGS, TEST & BALANCE REPORTS, & DESCRIPTIVE LITERATURE. AS FURNISHED BY EQUIPMENT MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS PROJECT NAME, DATE, OWNER, ARCHITECT, CONSULTING ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, & AN INDEX OF CONTENTS. SUBMIT THIRTY COPIES OF LITERATURE BOUND IN 3-RING BINDERS W/ INDEX & TABS SEPARATING EQUIPMENT TYPES TO ARCHITECT AT TERMINATION OF WORK. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL MANUAL IS RECEIVED & DEEMED COMPLETE BY ARCHITECT & ENGINEER. PROVIDE "AS-BUILT" DRAWINGS (SEE DIVISION 1 & GENERAL CONDITIONS).
2. THESE REQUIREMENTS MAY SHALL ALSO BE PROVIDED TO THE OWNER IN A WELL ORGANIZED PDF ELECTRONIC SUBMISSION & DELIVERED ON A DVD OR THUMBDRIVE.

22/23-1-K. TRAINING

1. PROVIDE FACTORY TRAINED & AUTHORIZED REPRESENTATIVE TO TRAIN OWNER'S DESIGNATED PERSONNEL ON OPERATION & MAINTENANCE OF EQUIPMENT PROVIDED FOR THIS PROJECT. PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF SYSTEM &/OR EQUIPMENT AS IT RELATES TO FACILITY AS WHOLE; OPERATION & MAINTENANCE PROCEDURES & SCHEDULES RELATED TO STARTUP & SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE & APPROPRIATE OPERATOR INTERVENTION; & REVIEW OF DATA INCLUDED IN OPERATION & MAINTENANCE MANUALS. SUBMIT CERTIFICATION LETTER TO ARCHITECT STATING THAT OWNER'S DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES & SUBJECT OF TRAINING. CONTRACTOR & OWNER'S REPRESENTATIVE SHALL SIGN CERTIFICATION LETTER INDICATING AGREEMENT THAT TRAINING HAS BEEN PROVIDED. SCHEDULE OWNER TRAINING W/ AT LEAST 7 DAYS' ADVANCE NOTICE.

22/23-1-L. SPARE PARTS

1. FURNISH TO OWNER, W/ RECEIPT:
 - 1A. ONE SET OF SPARE FILTERS OF EACH TYPE REQUIRED FOR EACH UNIT. IN ADDITION TO SPARE SET OF FILTERS, INSTALL NEW FILTERS PRIOR TO TESTING, ADJUSTING, & BALANCING WORK & BEFORE TURNING SYSTEM OVER TO OWNER.
 - 1B. FURNISH ONE COMPLETE SET OF BELTS FOR EACH FAN.

22/23-1-M. WARRANTIES

1. WARRANT EACH SYSTEM & EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP DESIGN OR MATERIAL FOR PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY LONGER WARRANTY IN CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN WARRANTY PERIOD(S) STATED IN GENERAL CONDITIONS & DIVISION 1. WARRANTIES SHALL INCLUDE LABOR & MATERIAL. MAKE REPAIRS WITHOUT ANY REPLACEMENT COSTS TO OWNER. PROVIDE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM ENGINEER OR OWNER.
2. AT TIME OF SUBSTANTIAL COMPLETION, DELIVER TO OWNER ALL WARRANTIES IN WRITING & PROPERLY EXECUTED INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND ONE YEAR PERIOD. EACH WARRANTY INSTRUMENT BEING ADDRESSED TO OWNER & STATING COMMENCEMENT DATE & TERM.

22/23-1-N. CUTTING & PATCHING

1. PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH ORIGINAL MATERIAL & CONSTRUCTION. REPAIR & REFINISH AREAS DISTURBED BY WORK TO CONDITION OF ADJOINING SURFACES IN MANNER SATISFACTORY TO ARCHITECT.

22/23-1-O. ROUGH-IN

1. COORDINATE ROUGH-IN W/ GENERAL CONSTRUCTION & OTHER TRADES. CONCEAL PIPING & CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS & WHERE OTHERWISE SHOWN.

22/23-1-P. STRUCTURAL STEEL

1. STRUCTURAL STEEL USED FOR SUPPORT OF EQUIPMENT, DUCTWORK & PIPING SHALL BE NEW, CLEAN, & CONFORM TO ASTM A-36. SUPPORT MECHANICAL COMPONENTS FROM BUILDING STRUCTURE. DO NOT SUPPORT MECHANICAL COMPONENTS FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, & OTHER NON-STRUCTURAL ELEMENTS.

22/23-1-Q. ACCESS DOORS

1. PROVIDE ACCESS DOORS IN CEILINGS, WALLS, ETC. WHERE INDICATED OR REQUIRED FOR ACCESS. MAINTAIN DOORS & CONCEALED HANGERS INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION & COLOR BEFORE ORDERING.

22/23-1-R. PENETRATIONS

1. SEAL MECHANICAL FLOOR, EXTERIOR WALL & ROOF PENETRATIONS WATERTIGHT & WEATHERTIGHT. SEAL AROUND MECHANICAL PENETRATIONS W/ 3M CP-25 FIRE BARRIER GULF (THICKNESS AS REQUIRED & RECOMMENDED BY MANUFACTURER) TO MAINTAIN RESISTANCE RATING OF FIRE-RATED ASSEMBLIES. PROVIDE PREFABRICATED ROOF CURBS MANUFACTURED BY CUSTOM CURB, INC., PATE COMPANY, THYCRUB OR APPROVED EQUAL. PROVIDE ROOF CURB W/ FACTORY INSTALLED WOOD WALKER, WELDED 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE & FLASHING. 1-1/2" THICK, 3 POUND RIGID INSULATION; FULLY MITERED 3-INCH BASED CANT; COVER OF WEATHER-RESISTANT, WEATHER-PROOF MATERIAL & PIPE COLLAR OF WEATHER-RESISTANT MATERIAL W/ STAINLESS STEEL W/ PIPE UNIFORM ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.

22/23-1-S. MOTORS & STARTERS

1. PROVIDE MOTORS & STARTING EQUIPMENT WHERE NOT FURNISHED W/ EQUIPMENT PACKAGE. MOTORS SHALL HAVE COPPER WINDINGS, CLASS B INSULATION, & STANDARD SQUIRREL CAGE W/ STARTING TORQUE CHARACTERISTICS SUITABLE FOR EQUIPMENT SERVED. MOTORS FOR AIR HANDLING EQUIPMENT SHALL BE SELECTED FOR QUIET OPERATION. EACH MOTOR SHALL BE CHECKED FOR PROPER ROTATION AFTER ELECTRICAL CONNECTION HAS BEEN COMPLETED. PROVIDE DRYPROOF ENCLOSURE FOR LOCATIONS PROTECTED FROM WEATHER & NOT IN AIR STREAM OF FAN, & TOTALLY ENCLOSED FAN COOLED ENCLOSURE FOR MOTORS EXPOSED TO WEATHER. MOTORS SHALL BE MANUFACTURED BY CENTURY, GENERAL ELECTRIC, WESTINGHOUSE, LOUIS ALDIS, OR APPROVED EQUAL. PROVIDE EVERY MOTOR, EXCEPT FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS W/ AN APPROVED TYPE OF "BUILT-IN" THERMAL OVERLOAD PROTECTION, W/ MOTOR STARTER. EACH STARTER SHALL BE PROVIDED W/ OVERLOAD HEATERS SIZED TO MOTOR RATING, & EVERY THREE PHASE MOTOR STARTER SHALL HAVE OVERLOAD HEATERS IN EACH PHASE. AMBIENT COMPENSATED HEATERS SHALL BE INSTALLED WHEREVER NECESSARY. UNLESS NOTED OTHERWISE, MOTOR STARTERS SHALL BE FURNISHED BY DIVISION 22/23 CONTRACTOR FOR INSTALLATION & CONNECTION BY DIVISION 16 CONTRACTOR. STARTERS SHALL BE ALLEN-BRODLEY, CLARK, FURNAS, SQUARE D, OR APPROVED EQUAL.

22/23-1-T. ELECTRICAL WIRING

1. LINE VOLTAGE WIRING SHALL BE PROVIDED BY DIVISION 26. LINE VOLTAGE CONTROL & INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE PROVIDED BY DIVISION 16 CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY DIVISION 22/23 CONTRACTOR. FURNISH WIRING DIAGRAMS TO DIVISION 26 CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE W/ DIVISION 26 CONTRACTOR ACTUAL WIRE SIZING AMPS FOR SUBMITTED MECHANICAL EQUIPMENT TO ENSURE PROPER INSTALLATION.

22/23-1-U. REFRIGERANT & OIL

1. PROVIDE FULL REFRIGERANT & OIL CHARGE IN NEW AIR CONDITIONING REFRIGERATION SYSTEMS, & MAINTAIN IT FOR FULL TERM OF GUARANTEE.

22/23-1-V. FINAL TESTING & ADJUSTMENTS

1. FINAL SYSTEM TESTING, BALANCING & ADJUSTMENTS SHALL BE PERFORMED BY CONTRACTOR CERTIFIED BY NEBB, AHJ OR OTHER APPROVED AGENCY. PERFORM TEST READINGS ON FANS, UNITS, COILS, ETC. & ADJUST EQUIPMENT TO DELIVER SPECIFIED AMOUNTS OF AIR OR WATER. PREPARE TESTING & BALANCING REPORT LOG SHOWING AIR SUPPLY QUANTITIES & DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. FAN & UNIT TEST READINGS, MOTOR VOLTAGE & AMP DRAWS, ETC., & SUBMIT SIX COPIES OF FINAL COMPIATION OF DATA TO ARCHITECT FOR EVALUATION & APPROVAL BEFORE FINAL INSPECTION OF PROJECT. BALANCE AIR SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT FOR TERMINAL DEVICES & BRANCH LINES & PLUS OR MINUS 5 PERCENT FOR MAIN DUCTS & AIR HANDLING EQUIPMENT OF AMOUNT OF AIR SHOWN ON DRAWINGS. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. ADJUST EQUIPMENT TO OPERATE AS SPECIFIED BY SPECIFICATION. ALIGN BEARINGS & REPLACE BEARINGS THAT HAVE DIRT OR FOREIGN MATERIAL IN THEM W/ NEW BEARINGS WITHOUT ADDITIONAL COST TO OWNER. BALANCE CONTRACTOR SHALL INCLUDE IN REPORT AND/OR REPAIRS. REPAIRS OR MISSING BALANCING DEVICES THAT WOULD NEGATIVELY IMPACT SYSTEM OPERATION, ADJUST THERMOSTATS & CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER & EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE. THAT THIS SYSTEM IS OPERATING SATISFACTORILY. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. CALIBRATE, SET, & ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, & OPERATION OF SAFETY CONTROLS.

22/23-1-W. EQUIPMENT FURNISHED BY OTHERS

1. PROVIDE NECESSARY EQUIPMENT & ACCESSORIES THAT ARE NOT PROVIDED BY EQUIPMENT SUPPLIER OR OWNER TO COMPLETE INSTALLATION OF COOKING EQUIPMENT, WASHING EQUIPMENT, ETC., FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON DRAWINGS &/OR DESCRIBED IN GENERAL NOTES TO THIS CONTRACTOR. EQUIPMENT & ACCESSORIES NOT PROVIDED BY EQUIPMENT SUPPLIER MAY INCLUDE FUELS, VENTS, INTAKES, ASSOCIATED ROOF JACKS & CAPS TO OUTDOORS, DAMPERS, IN-LINE FANS, ROOF FANS, CONTROL INTERLOCKS, ETC. AS REQUIRED FOR PROPER OPERATION OF COMPLETE SYSTEM IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ROUGH-IN DIMENSIONS, & SHALL VERIFY SAME W/ ARCHITECT &/OR EQUIPMENT SUPPLIER PRIOR TO SERVICE INSTALLATIONS.

22/23-1-X. MISCELLANEOUS REMODELING WORK

1. REMOVE ALL UNUSED EQUIPMENT, DUCTWORK, PIPING & ASSOCIATED SUPPORTS. CAP DUCTWORK & PIPING AT MAINS & SEAL AIR & WATER TIGHT. PROVIDE ITEMS OF HVAC SYSTEMS MODIFICATION REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON DRAWINGS OR NECESSARY FOR PROPER OPERATION. MATCH EXISTING MATERIALS & CONSTRUCTION TECHNIQUES WHEN MODIFYING EXISTING SYSTEMS UNLESS SPECIFIED OTHERWISE. COORDINATE ADDITIONAL REQUIREMENTS W/ GENERAL CONTRACTOR & ARCHITECT. SEAL AIRTIGHT EXISTING DUCTWORK REQUIRED TO BE ABANDONED IN PLACE OR NOT IN USE AT TERMINATION OF WORK. CAP & SEAL WEATHERTIGHT EXISTING ROOF CURBS & ROOF OPENINGS TO BE ABANDONED IN PLACE AS RESULT OF EQUIPMENT REMOVAL. CLEAN & REBALANCE EXISTING DUCTWORK, DIFFUSERS, REGISTERS, & GRILLES INTENDED FOR REUSE AS REQUIRED OR AS INDICATED ON DRAWINGS. CLEAN & REFURISH EXISTING HVAC EQUIPMENT INTENDED FOR REUSE AS REQUIRED FOR PROPER OPERATION INCLUDING REPLACEMENT OF FILTERS, BELTS, MOTORS, REMOTE CONTROLS, & SAFETY INTERLOCKS.

22/23-1-Y. BUILDING OPERATION

1. COMPLY W/ SCHEDULE OF OPERATIONS AS OUTLINED IN ARCHITECTURAL PORTIONS OF THIS SPECIFICATION. BUILDING SHALL BE IN CONTINUOUS OPERATION, ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT TIME WHEN BUILDING IS NOT IN OPERATION, & ONLY W/ WRITTEN APPROVAL OF BUILDING OWNER &/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION W/ OWNER &/OR TENANT MINIMUM OF SEVEN DAYS IN ADVANCE OF WORK.

22/23-1-Z. VIBRATION ISOLATION

1. PROVIDE VIBRATION ISOLATION EQUIPMENT & MATERIALS BY SINGLE MANUFACTURER. AMBER BOOTH, KINETICS NOISE CONTROL, MASON INDUSTRIES, INC., VIBRATION ELIMINATOR CO., INC., & VIBRATION MOUNTING & CONTROLS. GENERAL REQUIREMENTS: SELECT VIBRATION ISOLATORS BY WEIGHT DISTRIBUTION TO PRODUCE UNIFORM DEFLECTION. ISOLATORS SHALL OPERATE IN LINEAR PORTION OF THEIR LOAD VERSUS DEFLECTION CURVES. SPRING ISOLATORS SHALL HAVE 50 PERCENT EXCESS CAPACITY WITHOUT BECOMING COIL BOUND. COIL VIBRATION ISOLATORS W/ FACTORY-APPLIED PAINT. COAT VIBRATION ISOLATORS EXPOSED TO WEATHER & CORROSION W/ FACTORY-APPLIED PROTECTION. INSTALL & ADJUST ISOLATORS IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS.

22-II. PLUMBING

22-II-A. PIPING & INSULATION

1. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASH & PVC COVERS. THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
2. WASTE & VENT PIPING - O BELL & SPIGOT OR HUBLESS O W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SOLDERED WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLUMBING.
3. GAS PIPING - PROVIDE SCH40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS.

22-II-B. VALVES

1. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APOLLO, MUELLER, MUSSCO, WATTS, HAYS, ROCKWELL-NORSTROM.
2. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLOON SEATS, BRONZE BALL & INSULATED HANDLE.
3. BALANCING VALVES - ARMSTRONG MODEL CBV 1 OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.
4. CHECK VALVES - 2" & SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLOON OR BRONZE DISC & SEAT RING, 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200PSI-WOG/125 PSI-WSP.

22-II-C. FITTINGS - SEE SCHEDULES

1. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.
2. WALL HYDRANTS JOSAM SERIES 71000 W/ CONNECTIONS FOR 1/2" PIPE & HOSE. NON-FREEZING W/ KEY, VACUUM BREAKER, LOCKING COVER. EQUIVALENT BY J.R. SMITH, WADE, WOODFORD OR ZURN.

22-II-E. PLUMBING EXECUTION

1. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.
2. ALL PIPING SHALL BE PROPERLY SUPPORTED WITH HANGERS AND SUPPORTS

- SPECIFICALLY INTENDED FOR THAT PURPOSE. PROVIDE CLEVIS HANGERS, UNISTRUT BRACKETS AND PIPE CLAMPS AND SIMILAR SYSTEMS. PROTECT INTEGRITY OF INSULATION AND PROVIDE RIGID INSULATION INSERTS OR PIPE SADDLES AS NECESSARY.
3. AFTER PIPING IS IN PLACE TEST LINES TO INSURE NO LEAKS.
 4. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.
 5. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.
 6. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.
 7. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY. LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

23-III. HVAC

23-III-A. INSULATION WORK

1. DUCT INSULATION & WRAPS SHALL NOT EXCEED FLAME SPREAD RATING OF 25 & SMOKE DEVELOPED RATING OF 50 PER ASTM E 84.
2. LINE AIR SUPPLY & RETURN AIR HVAC DUCTWORK W/ 1/2" LINER. WRAP ALL SUPPLY & RETURN DUCTWORK FROM UNITS GREATER THAN 5000CFM & WITHIN 10' OF FAN W/ SOUND LACING WOOL FOR SOUND ATTENUATION.

23-III-B. SHEET METAL WORK

1. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.
2. COORDINATE ROUTING OF DUCTWORK W/ OTHER CONTRACTORS SUCH THAT PIPING, ELECTRICAL CONDUIT, & ASSOCIATED SUPPORTS ARE NOT ROUTED THROUGH DUCTWORK. CONSTRUCT SUPPLY DUCTS TO MEET SMACNA POSITIVE PRESSURE OF 3" W.G. CONSTRUCT RETURN, OUTDOOR & EXHAUST DUCTWORK UPSTREAM OF FANS TO MEET SMACNA NEGATIVE PRESSURE OF 1" W.G. CONSTRUCT EXHAUST DUCTWORK DOWNSTREAM OF FANS TO MEET SMACNA POSITIVE PRESSURE OF 1" W.G.
3. SEAL DUCTWORK W/ HEAVY LIQUID SEALANT, HARDOAST RTRONGRP #601, DESIGN POLYMER DP 1010, UNITED MCGILL DUCT SEALER OR APPROVED EQUAL, APPLIED ACCORDING TO SEALANT MANUFACTURER'S INSTRUCTIONS.
4. DUCTS SHALL BE CONNECTED TO FANS, FAN CASINGS & FAN PLUMBING BY MEANS OF FLEXIBLE CONNECTORS. FLEXIBLE CONNECTORS SHALL BE NEOPRENE COATED GLASS CLOTH CANVAS CONNECTIONS, DURO-DYNE, ELGEN, VENTIFABRIC OR EQUAL. FLEXIBLE CONNECTORS SHALL HAVE FLAME SPREAD OF 25 OR LESS & SMOKE DEVELOPED RATING NOT HIGHER THAN 50. MAKE AIRTIGHT JOINTS & INSTALL W/ MINIMUM 1-1/2" SLACK.
5. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.

23-III-C. DUCTWORK SPECIALTIES

1. LOUVERS - GREENHECK ESD-435 FABRICATED GALVANIZED STEEL LOUVER W/ TRIM FLANGE. EQUIVALENT BY RUSKIN, LOUVERS & DAMPERS, GREENHECK, AMERICAN WARNING & VENTILATING, INDUSTRIAL LOUVERS, ACME. COORDINATE FINISH W/ ARCHITECT.
2. EXHAUST FANS - EQUIVALENT BY COOK, PENN, ACME, GREENHECK, JENNAIRE. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB. PROVIDE GRADE TRIM & VENTILATED CURB EXTENSIONS FOR GRADE FANS.
3. PROGRAMMABLE THERMOSTATS STAGES OF COOLING & HEATING AS REQUIRED BY STAGES ON SPECIFIED EQUIPMENT. 7-DAY PROGRAMMING CAPABILITY W/ 2.00C/NOCC PERIODS/DAY. AUTO HEAT/COOL CHANGE OVER. LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, TRANE, CARRIER OR APPROVED EQUAL.

23-III-F. HVAC EXECUTION

1. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL

SECTION 260000 - ELECTRICAL SPECIFICATIONS

26-1 ELECTRICAL REQUIREMENTS

26-1-A GENERAL REQUIREMENTS

- ALL REQUIREMENTS UNDER DIVISION 1 & GENERAL & SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS APPLY TO THIS SECTION & DIVISION. WHERE REQUIREMENTS OF THIS SECTION & DIVISION EXCEED THOSE OF DIVISION 1, THIS SECTION & DIVISION TAKE PRECEDENCE. RECTOR THOROUGHLY FAMILIAR W/ ALL THEIR CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS SECTION, SECTION OR BOTH. WORK REQUIRED UNDER THIS DIVISION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, & LABOR REQUIRED TO COMPLETE ENTIRE ELECTRICAL SYSTEM AS REQUIRED BY DRAWINGS & SPECIFICATIONS, OR REASONABLY INFERRED TO BE NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS IMPLIED BY DESIGN & EQUIPMENT SPECIFIED.
- SPECIFICATIONS & DRAWINGS FOR PROJECT ARE COMPLEMENTARY, & PORTIONS OF WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN EVENT OF DISCREPANCIES, NOTIFY ENGINEER & REQUEST CLARIFICATION PRIOR TO PROCEEDING W/ WORK INVOLVED.
- DRAWINGS ARE GRAPHIC REPRESENTATIONS OF WORK UPON WHICH CONTRACT IS BASED. THEY SHOW MATERIALS & THEIR RELATIONSHIP TO ONE ANOTHER, INCLUDING SIZES, SHAPES, LOCATIONS, & CONNECTIONS. THEY ALSO CONVEY SCOPE OF WORK, INDICATING INTENDED GENERAL ARRANGEMENT OF EQUIPMENT, FIXTURES, OUTLETS & CIRCUITS WITHOUT SHOWING ALL OF EXACT DETAILS AS TO ELEVATIONS, OFFSETS, CONTROL LINES, OR OTHER INSTALLED TOOLS REQUIREMENTS. USE DRAWINGS AS GUIDE WHEN LAYING OUT WORK & TO VERIFY THAT MATERIALS & EQUIPMENT WILL FIT INTO DESIGNATED SPACES, & WHICH, WHEN INSTALLED PER MANUFACTURERS' REQUIREMENTS, WILL ENSURE COMPLETE, COORDINATED, SATISFACTORY & PROPERLY OPERATING SYSTEM.
- DRAWINGS ARE SCHEMATIC IN NATURE, SHOW VARIOUS COMPONENTS OF SYSTEMS APPROXIMATELY TO SCALE & ATTEMPT TO INDICATE HOW THEY SHALL BE INTEGRATED W/ OTHER PARTS OF WORK. FIGURED DIMENSIONS TAKE PRECEDENCE TO SCALED DIMENSIONS. DETERMINE EXACT LOCATIONS BY JOB MEASUREMENTS, BY CHECKING REQUIREMENTS OF OTHER TRADES, & BY REVIEWING ALL CONTRACT DOCUMENTS. CORRECT ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING & INSPECTION, AT NO ADDITIONAL COST TO OWNER.
- SPECIFICATIONS DEFINE QUALITY REQUIREMENTS FOR PRODUCTS, MATERIALS, & WORKMANSHIP UPON WHICH CONTRACT IS BASED.
- ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
- OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
- WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
- CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. IF ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
- ALL MATERIALS INSTALLED IN PLenums SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
- PROVIDE ALL HOSTS, SCAFFOLDS, STAIRS, RUNWAYS, TOOLS & EQUIPMENT REQUIRED FOR PERFORMANCE OF ELECTRICAL WORK, STORE & MAINTAIN MATERIAL & EQUIPMENT IN CLEAN CONDITION, & PROTECTED FROM WEATHER, MOISTURE, & PHYSICAL DAMAGE.
- FURNISH ONLY MATERIAL & EQUIPMENT THAT ARE LISTED, LABELED, CERTIFIED, OR ALL THREE, BY NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), WHENEVER ANY LISTING OR LABELING EXISTS FOR TYPES OF MATERIAL & EQUIPMENT SPECIFIED.
- AT MINIMUM GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE W/ NECA 1 (LATEST EDITION), "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION"

26-1-B DEFINITIONS

- WHenever USED IN THESE SPECIFICATIONS OR DRAWINGS, FOLLOWING TERMS SHALL HAVE INDICATED MEANINGS:
 - FURNISH: "TO SUPPLY & DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLING, INSTALLING, & SIMILAR OPERATIONS."
 - INSTALL: "TO PERFORM ALL OPERATIONS AT PROJECT SITE, INCLUDING, BUT NOT LIMITED TO, & AS REQUIRED: UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, TESTING, COMMISSIONING, STARTING UP & SIMILAR OPERATIONS, COMPLETE, & READY FOR INTENDED USE."
 - PROVIDE: "TO FURNISH & INSTALL COMPLETE, & READY FOR INTENDED USE."
 - FURNISHED BY OWNER (OR OWNER-FURNISHED) OR FURNISHED BY OTHERS: "AN ITEM FURNISHED BY OWNER OR UNDER OTHER DIVISIONS OR CONTRACTS, & INSTALLED UNDER REQUIREMENTS OF THIS DIVISION, COMPLETE, & READY FOR INTENDED USE, INCLUDING ALL ITEMS & SERVICES INCIDENTAL TO WORK NECESSARY FOR PROPER INSTALLATION & OPERATION, INCLUDE INSTALLATION UNDER WARRANTY REQUIRED BY THIS DIVISION."
 - ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS ENGINEER OF RECORD & DESIGN PROFESSIONAL FOR WORK UNDER THIS DIVISION, & IS CONSULTANT TO, & AN AUTHORIZED REPRESENTATIVE OF, ARCHITECT, AS DEFINED IN GENERAL &/OR SUPPLEMENTARY CONDITIONS. WHEN USED IN THIS DIVISION, IT MEANS INCORPORATED INVOLVEMENT BY, OBLIGATIONS TO, ENGINEER, IN ADDITION TO INVOLVEMENT BY, & OBLIGATIONS TO, "ARCHITECT."
 - AHJ: LOCAL CODE &/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER WORK.
 - NRTL: NATIONALLY RECOGNIZED TESTING LABORATORY, AS DEFINED & LISTED BY OSHA IN 29 CFR 1910.7 (E.C., UL, ETL, CSA), & ACCEPTABLE TO AHJ OVER THIS PROJECT.
 - TERMS "APPROVED EQUAL," "EQUALLY," OR "EQUAL" ARE USED SYNONYMOUSLY & SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO ENGINEER AS EQUIVALENT TO ITEM MANUFACTURER SPECIFIED." TERM "APPROVED" SHALL MEAN LABELED, LISTED, CERTIFIED, LISTED, OR ALL THREE, BY AN NRTL, & ACCEPTABLE TO AHJ OVER THIS PROJECT.

26-1-C PRE-BID SITE VISIT

- PERSONALLY INSPECT SITE OF PROPOSED WORK & BECOME FULLY INFORMED OF CONDITIONS UNDER WHICH WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER & ABOVE CONTRACT PRICE.

26-1-D COORDINATION

- COORDINATE ALL WORK W/ OTHER DIVISIONS & TRADES SO THAT VARIOUS COMPONENTS OF ELECTRICAL SYSTEMS ARE INSTALLED AT PROPER TIME, FIT AVAILABLE SPACE, & ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT, REFER TO ALL DRAWINGS, INCLUDING, BUT NOT LIMITED TO, CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, & PLUMBING, & TO RELEVANT EQUIPMENT SUBMITTALS & SHOP DRAWINGS TO DETERMINE EXTENT OF CLEAR SPACES, MAKE ALL OFFSETS REQUIRED TO CLEAR EQUIPMENT, BEAMS & OTHER STRUCTURAL MEMBERS, & TO FACILITATE CONCEALING RACEWAYS IN MANNER ANTICIPATED IN DESIGN. PROVIDE MATERIALS W/ TRIM THAT WILL FIT PROPERLY TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED.

26-1-E ORDINANCES, CODES, & STANDARDS

- COMPLY AT MINIMUM W/ NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, STATE & LOCAL BUILDING CODES, & ALL OTHER APPLICABLE CODES & ORDINANCES, WORKMANSHIP, EQUIPMENT, OR NEW CONSTRUCTION. ADDITIONALLY, COMPLY W/ RULES & REGULATIONS OF PUBLIC UTILITIES & MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTION OF SERVICES.
- WHERE CONFLICTS BETWEEN VARIOUS CODES, ORDINANCES, RULES, & REGULATIONS EXIST, COMPLY W/ MOST STRINGENT. WHEREVER REQUIREMENTS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, EXCEED THOSE OF OTHER ITEMS, REQUIREMENTS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, SHALL GOVERN. CODE COMPLIANCE, AT MINIMUM, IS MANDATORY. CONSTRUE NOTHING IN THESE CONSTRUCTION DOCUMENTS AS PERMITTING WORK NOT IN COMPLIANCE, AT MINIMUM, W/ THESE CODES.
- BRING ALL CONFLICTS OBSERVED BETWEEN CODES, ORDINANCES, RULES, REGULATIONS, REFERENCED STANDARDS, & THESE DOCUMENTS TO ENGINEER'S ATTENTION FOR FINAL RESOLUTION. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF LAW.
- PROVIDE & MAINTAIN ALL NECESSARY SIGNAL LIGHTS & GUARDS FOR SAFETY OF PUBLIC. OBTAIN & PAY FOR ALL PERMITS FOR WORK IN THIS DIVISION.

26-1-F PROTECTION OF EQUIPMENT & MATERIALS

- STORE & PROTECT FROM DAMAGE EQUIPMENT & MATERIALS DELIVERED TO JOB SITE, IN ACCORDANCE W/ MANUFACTURERS' RECOMMENDATIONS. FOR MATERIALS &

EQUIPMENT SUSCEPTIBLE TO CHANGING WEATHER CONDITIONS, DAMPNES, OR TEMPERATURE VARIATIONS, STORE INSIDE IN CONDITION SPACES. FOR MATERIALS & EQUIPMENT NOT SUSCEPTIBLE TO THESE CONDITIONS, COVER AS REQUIRED TO PROTECT FROM DIRT & DAMAGE. EQUIPMENT & MATERIAL DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, & CONTRACTOR SHALL FURNISH NEW EQUIPMENT & MATERIALS LIKE KIND, PLUS OR CHG OPEN ENDS OF CONDUIT WHILE STORED & INSTALLED. DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT ENTRANCE OF DEBRIS INTO SYSTEMS.

22-1-L SHOP DRAWINGS

- SUBMIT TO ARCHITECT FOR APPROVAL, ELECTRONIC PDF COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT, ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS & SHEET METAL DUCTWORK FABRICATION DRAWINGS, BEFORE SUBMITTING SHOP DRAWINGS. VIEWS OF EQUIPMENT SUBMITTED MUST BE IDENTICAL TO EQUIPMENTS FOR INTENDED USE & WILL FIT AVAILABLE SPACE & ALLOW AMPLE ROOM FOR MAINTENANCE. ENGINEER'S CHECKING & SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE, EARLY OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS, COORDINATION OF ELECTRICAL REQUIREMENTS, OR FOR COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS. PROCEED W/ PROCUREMENT & INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM.
- SUBMITTAL DATA SHALL BE NEATLY ORGANIZED, IDENTIFIED & INDEXED. EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED & ACCESSORIES INDICATED. LABEL CATALOG DATA W/ EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON DRAWINGS, & INCLUDE ELECTRICAL CURVES, CAPACITIES, SIZED MATERIAL FINISHES, WIRING DIAGRAMS & DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF ABOVE MENTIONED REQUIREMENTS ARE NOT MET.
- REVISIONS TO SUBMITTALS SHALL BE MET ELECTRONICALLY & SUBMITTED AS PDF IN FILES LESS THAN 10MB.
- CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT STAMPED DRAWINGS HAVE BEEN CHECKED BY CONTRACTOR, COMPLY W/ DRAWINGS & SPECIFICATIONS, & HAVE BEEN COORDINATED W/ OTHER TRADES.
- TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT PROJECT SCHEDULE. ALLOW FOR TWO WEEKS A/E REVIEW TIME, PLUS DUPLICATION OF THIS TIME FOR RESUBMITTALS, IF REQUIRED. TRANSMIT SUBMITTALS AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED & BEFORE CONSTRUCTION STARTS. ENGINEER'S SUBMITTAL REVIEW WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS.
- FINAL COPIES SHALL BE FURNISHED TO OWNER AS PART OF O&M DOCUMENTS IN HARD & ELECTRONIC FORMATS.

26-1-L OPERATION & MAINTENANCE INSTRUCTIONS

- COLLECT & COMPILE COMPLETE SET OF EQUIPMENT FURNISHED & INSTALLED ON THIS PROJECT, INCLUDING OPERATION & MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, TEST & BALANCE REPORTS, & DESCRIPTIVE LITERATURE AS FURNISHED BY EQUIPMENT MANUFACTURERS. INCLUDE IN EACH SUBMIT SHEET THAT LISTS PROJECT NAME, DATE, OWNER, ARCHITECT, CONSULTING ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, & AN INDEX OF CONTENTS. SUBMIT THREE COPIES OF LITERATURE BOUND IN 3-RING BINDERS W/ INDEX & TABS SEPARATING EQUIPMENT TYPES. TO ARCHITECT FOR TERMINATION OF WORK. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL MANUAL IS RECEIVED & DEMED CALLED BY ARCHITECT & ENGINEER. PROVIDE "AS-BUILT" DRAWINGS (SEE DIVISION 1 & GENERAL CONDITIONS).
- THESE REQUIREMENTS MAY SHALL ALSO BE PROVIDED TO THE OWNER IN A WELL ORGANIZED PDF ELECTRONIC SUBMISSION & DELIVERED ON A DVD OR THUMBDRIVE.

26-1-L OPERATION & MAINTENANCE INSTRUCTIONS

- SUBMIT TO ARCHITECT, FOR ENGINEER'S REVIEW, COPIES EACH OF OPERATIONS & MAINTENANCE INSTRUCTION MANUALS, APPROPRIATELY BOUND INTO MANUAL FORM, INCLUDING APPROVED COPIES OF FOLLOWING, REVISED IF NECESSARY TO SHOW SYSTEM & EQUIPMENT AS ACTUALLY INSTALLED. PROVIDE NUMBER OF SUBMITTALS REQUIRED BY DIVISION 1; HOWEVER, AT MINIMUM, SUBMIT THREE (3) SETS, & INCLUDE, AT MINIMUM, FOLLOWING INFORMATION IN EACH SUBMITTAL:
 - MANUFACTURER'S CATALOG & PRODUCT DATA SHEETS, WIRING DIAGRAMS, MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS, PARTS LISTS
 - TEST REPORTS AS DEFINED IN NETA ATS FOR SYSTEMS & EQUIPMENT PROVIDED OR FURNISHED OR INSTALLED UNDER THIS CONTRACT.
 - NAMES, ADDRESSES, & E-MAIL ADDRESSES OF LOCAL CONTACTS FOR WARRANTY SERVICES & SPARE PARTS.
 - SUBMIT MANUALS PRIOR TO REQUESTING FINAL PUNCH LIST & BEFORE ANY REQUEST FOR SUBSTITUTION. COMPLY. ALSO PROVIDE ADEQUATE VERBAL INSTRUCTIONS OF SYSTEM OPERATIONS TO OWNER'S REPRESENTATIVE AT COMPLETION OF, & BEFORE FINAL ACCEPTANCE OF, WORK.

26-1-L TRAINING

- AT TIME MUTUALLY AGREED UPON BETWEEN OWNER & CONTRACTOR, PROVIDE SERVICES OF FACTORY TRAINED & AUTHORIZED REPRESENTATIVE TO TRAIN OWNER'S DESIGNATED PERSONNEL ON OPERATION & MAINTENANCE OF EQUIPMENT PROVIDED FOR THIS PROJECT.
- TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF SYSTEM &/OR EQUIPMENT AS IT RELATES TO FACILITY AS WHOLE; OPERATION & MAINTENANCE PROCEDURES & SCHEDULES RELATED TO STARTUP & SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE & APPROPRIATE QUALITY INTERVENTION. REVIEW OF DATA INCLUDED IN OPERATION & MAINTENANCE INSTRUCTIONS.
- SUBMIT CERTIFICATION LETTER TO ARCHITECT STATING THAT OWNER'S DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES & SUBJECT OF TRAINING. CONTRACTOR & OWNER'S REPRESENTATIVES SHALL SIGN CERTIFICATION LETTER INDICATING AGREEMENT THAT TRAINING HAS BEEN PROVIDED.
- SCHEDULE TRAINING W/ OWNER W/ AT LEAST 7 DAYS' ADVANCE NOTICE.

26-1-K WARRANTIES

- WARRANT EACH SYSTEM & EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION. UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY LONGER WARRANTY IN CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS.
- REMEDY ALL DEFECTS, OCCURRING WITHIN WARRANTY PERIOD(S), AS STATED IN GENERAL CONDITIONS & DIVISION 1. ALSO WARRANT FOLLOWING ADDITIONAL ITEMS:
 - ALL RACEWAYS, INCLUDING, BUT NOT LIMITED TO, ALL TYPES OF RACEWAYS, BREAKS OF ANY NATURE, ALL RACEWAY SEALS ARE EFFECTIVE, ENTIRE ELECTRICAL SYSTEM IS FREE FROM ALL SHORT CIRCUITS & UNWANTED OPEN CIRCUITS & GROUNDS.
- ABOVE WARRANTIES SHALL INCLUDE LABOR & MATERIAL MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO OWNER.
- PERFORM REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM ENGINEER OR OWNER.
- AT TIME OF SUBSTANTIAL COMPLETION, DELIVER TO OWNER ALL WARRANTIES, IN WRITING & PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO OWNER & STATING COMMENCEMENT DATE & TERM.

26-1-L MISCELLANEOUS REMODELING WORK

- PROVIDE ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS & NEW ELECTRICAL SYSTEMS MODIFICATIONS REQUIRED BECAUSE OF BUILDING REFINISHING, AS NOTED ON DRAWINGS, OR FOR CORRECTION OF NEW CONSTRUCTION. REMOVE ALL ABANDONED CABLES & WIRING ABOVE ACCESSIBLE CEILINGS & VENTILATION SHAFTS.
- REMOVE DEBRIS, RUBBISH, & OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS FROM BUILDING SITE. TRANSPORT & LEGALLY DISPOSE OFF SITE.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY W/ APPLICABLE REGULATIONS, LAWS, & ORDINANCES CONCERNING REMOVAL, HANDLING, & PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- ERECT & MAINTAIN DUST-PROOF PARTITIONS & CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO ANY OCCUPIED PORTIONS OF THE BUILDING.
- PHOTOGRAPHS OF EXISTING CONDITIONS OF STRUCTURE SURFACES, EQUIPMENT, & ADJACENT IMPROVEMENTS THAT MIGHT BE MISCONSTRUED AS DAMAGE RELATED TO REMOVAL OPERATIONS. FILE W/ ARCHITECT PRIOR TO START OF WORK.

26-1-M BUILDING OPERATION

- COMPLY W/ SCHEDULE OF OPERATIONS AS OUTLINED IN ARCHITECTURAL PORTIONS OF THIS SPECIFICATION. BUILDING SHALL BE IN CONTINUOUS OPERATION. ACCOMPLISH WORK THAT REQUIRES INTERRUPTION OF BUILDING OPERATION AT TIME WHEN BUILDING IS NOT IN OPERATION, & ONLY W/ WRITTEN APPROVAL OF BUILDING OWNER &/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION W/ OWNER &/OR TENANT MINIMUM OF 7 DAYS IN ADVANCE OF WORK.

26-1-N CONCURRENT DAMAGE

- REPAIR ALL STREETS, SIDEWALKS, DRIVES, PAVING, WALLS, FINISHES, & OTHER FACILITIES DAMAGED IN COURSE OF THIS WORK. REPAIR MATERIALS SHALL MATCH EXISTING CONSTRUCTION. REPAIR MATERIALS SHALL GENERALLY MATCH EXISTING CONSTRUCTION. ALL BACKFILLING & REPAIRING SHALL MEET ALL REQUIREMENTS OF

OWNER, CITY & OTHERS HAVING JURISDICTION. REPAIR WORK SHALL BE THOROUGHLY FIRST CLASS, CONFORM TO ALL REQUIREMENTS OF DIVISION 2 OF THESE SPECIFICATIONS.

26-1-O CUTTING & PATCHING

- FOLLOWING REQUIREMENTS IN DIVISION 1, CUT WALLS, FLOORS, CEILINGS, & OTHER PORTIONS OF FACILITY AS REQUIRED BY WORK UNDER THIS DIVISION. OBTAIN PERMISSION OF ENGINEER, OWNER, OR BOTH, BEFORE DOING ANY CUTTING. CUT ALL HOLES AS SMALL AS POSSIBLE. PATCH WALLS, FLOORS, & OTHER PORTIONS OF FACILITY AS REQUIRED BY WORK UNDER THIS DIVISION. PATCHING SHALL BE THOROUGHLY FIRST CLASS & SHALL MATCH ORIGINAL MATERIAL & CONSTRUCTION, INCLUDING FIRE RATINGS IF APPLICABLE.

26-1-P ROUGH IN

- COORDINATE WITHOUT DELAY ALL ROUGH-INING W/ OTHER DIVISIONS. CONCEAL ALL RACEWAYS EXCEPT IN UNFINISHED AREAS & WHERE OTHERWISE INDICATED ON DRAWINGS.

26-1-Q PENETRATIONS

- COORDINATE SLEEVE SELECTION & APPLICATION W/ SELECTION & APPLICATION OF FIRE-STOPPING SPECIFIED IN DIVISION 7 SECTION "THROUGH-PENETRATION FIRESTOP SYSTEMS."
- COORDINATE ALL ROOF PENETRATIONS W/ ENGINEER, OWNER, & AS APPLICABLE, ROOFING CONTRACTOR PROVIDING ROOF WARRANTY.
 - KEEP ALL RACEWAY PENETRATIONS WITH MECHANICAL EQUIPMENT CURBS WHEREVER POSSIBLE. COORDINATE W/ DIVISION 15.
 - FLASH & COUNTERFLASH ALL OPENINGS THROUGH ROOF, &/OR PROVIDE PRE-FABRICATED MOULDED SEALS COMPATIBLE W/ ROOF CONSTRUCTION. INSTALLED, OR AS REQUIRED BY ENGINEER, OWNER, OR ROOFING CONTRACTOR. ALL ROOF PENETRATIONS SHALL BE LEAKTIGHT AT TERMINATION OF WORK & SHALL NOT VOID ANY NEW OR EXISTING ROOF WARRANTIES.

3. WALLS & FLOORS

- SLEEVES FOR RACEWAYS & CABLES - STEEL PIPE SLEEVES: ASTM A314 53M, TYPE E, GRADE B, SCHEDULE 40, GALVANIZED STEEL, PLAIN ENDS & DRIP RINGS. CAST-IRON PIPE SLEEVES: CAST OR FABRICATED WALL PIPE, EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, W/ PLAIN ENDS & INTEGRAL WATERSTOP UNLESS OTHERWISE INDICATED.
- SLEEVES FOR RECTANGULAR OPENINGS: GALVANIZED STEEL W/ MINIMUM 0.052" - OR 0.138-INCH THICKNESS AS INDICATED & OF LENGTH TO SUIT APPLICATION.

26-1-R FIRE-STOPPING THROUGH PENETRATIONS

- FIRE-RESISTANT THROUGH PENETRATION SEALANTS: TWO-PART, FOAMED-IN-PLACE, SILICONE, SEALANT FORMULATED FOR USE IN THROUGH-PENETRATIONS THROUGH-FIRE-RATED WALLS & FLOORS. SEALANTS & ACCESSORIES SHALL HAVE FIRE-RESISTANCE RATINGS INDICATED, AS ESTABLISHED BY TESTING IDENTICAL ASSEMBLIES IN ACCORDANCE W/ ASTM E 814, BY UNDERWRITERS LABORATORIES, INC., OR OTHER NRTL ACCEPTABLE TO AHJ. ACCEPTABLE MANUFACTURERS: HILTI, 3M, RECTORSPEC, SPECIFY TECHNOLOGY INC., UNITED STATES GYPSUM COMPANY.

26-1-S SUBMITTALS

- SUBMIT PRODUCT DATA: MANUFACTURER'S SPECIFICATIONS & TECHNICAL DATA FOR EACH MATERIAL INCLUDING COMPOSITION & LIMITATIONS, DOCUMENTATION OF UL FIRESTOP SYSTEMS TO BE USED & MANUFACTURER'S INSTALLATION INSTRUCTIONS TO COMPLY W/ DIVISION 1.
- MANUFACTURER'S ENGINEERING JUDGMENT IDENTIFICATION NUMBER & DRAWING DETAILS WHEN NO UL SYSTEM IS AVAILABLE FOR AN APPLICATION. ENGINEERING JUDGMENT SHALL INCLUDE BOTH PROJECT NAME & CONTRACTOR'S NAME WHO WILL INSTALL FIRESTOP SYSTEM AS DESCRIBED IN DRAWINGS.
- SUBMIT MATERIAL SAFETY DATA SHEETS PROVIDED W/ PRODUCT DELIVERED TO JOB-SITE.

26-1-T ACCESS DOORS

- PROVIDE ACCESS DOORS IN CEILINGS & WALLS, WHERE INDICATED OR REQUIRED BY OPERATION & MAINTENANCE TO CONCEALED EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES SCREWDRIVER TYPE LOCK, & ANCHOR STRAPS. MANUFACTURED BY MILCOR, ZURN, ITTUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION & COLOR BEFORE ORDERING.

26-1-U EQUIPMENT FURNISHED BY OTHERS

- PROVIDE NECESSARY EQUIPMENT & ACCESSORIES THAT ARE NOT PROVIDED BY EQUIPMENT SUPPLIER, OR OWNER, TO COMPLETE INSTALLATION OF EQUIPMENT FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON DRAWINGS. SPECIFIED HEREIN, OR BOTH. EQUIPMENT & ACCESSORIES NOT PROVIDED BY EQUIPMENT SUPPLIER MAY INCLUDE SUCH ITEMS AS FLEXIBLE CORDS & PLUGS, AS REQUIRED FOR PROPER OPERATION OF COMPLETE SYSTEM, IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS.
- BE RESPONSIBLE FOR CORRECT ROUGH-IN DIMENSIONS, & VERIFY THEM W/ ENGINEER, OWNER'S REPRESENTATIVE, EQUIPMENT SUPPLIER, OR ALL THREE, PRIOR TO ROUGH-IN & SERVICE INSTALLATIONS.

26-1-V CLEANING

- IN ADDITION TO REQUIREMENTS OF DIVISION 1, REMOVE FROM PREMISES DIRT & REFUSE RESULTING FROM PERFORMANCE OF ELECTRICAL WORK, AS REQUIRED, TO PREVENT ACCUMULATION. COOPERATE IN MAINTAINING REASONABLY CLEAN PREMISES AT ALL TIMES. IMMEDIATELY PRIOR TO FINAL INSPECTION, MAKE FINAL CLEANUP OF DIRT & REFUSE RESULTING FROM WORK. CLEAN ALL MATERIAL & EQUIPMENT INSTALLED UNDER THIS DIVISION. REMOVE DIRT, PLASTER, STAINS & FOREIGN MATERIAL FROM ALL SURFACES. TOUCH UP & RESTORE ALL DAMAGED FINISHES TO THEIR ORIGINAL CONDITION.

26-1-W ADJUSTING, ALIGNING & TESTING

- ADJUST ALL ELECTRICAL EQUIPMENT ON THIS PROJECT PROVIDED UNDER THIS DIVISION & ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS FOR INSTALLATION OR WIRING UNDER THIS DIVISION FOR PROPER OPERATION. TEST ALL SYSTEMS & EQUIPMENT ACCORDING TO REQUIREMENTS IN NETA ATS (LATEST EDITION) & ALL ADDITIONAL REQUIREMENTS.
- IN FOLLOWING SECTIONS, MAINTAIN FOLLOWING ON PROJECT PREMISES AT ALL TIMES: TRUE RMS READING VOLTMETER, TRUE RMS READING AMMETER, & MEGOHMMETER INSULATION RESISTANCE TESTER. PROVIDE TEST DATA READINGS AS REQUESTED OR AS REQUIRED BY ENGINEER.

26-1-X SYSTEM START-UP

- PRIOR TO STARTING UP ELECTRICAL SYSTEMS:
 - CHECK ALL COMPONENTS & SYSTEMS FROM INSPECTION.
 - LUBRICATE ITEMS ACCORDINGLY.
 - TIGHTEN SCREWS & BOLTS FOR CONNECTORS & TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 489A & UL 489B.
- CHECK & RECORD BUILDING'S SERVICE ENTRANCE VOLTAGE, GROUNDING CONDITIONS, GROUNDING RESISTANCE, & PROPER PHASING.
- REPLACE ALL BURNED-OUT LAMPS & LAMPS USED FOR TEMPORARY CONSTRUCTION LIGHTING IN PERMANENT LIGHT FIXTURES.
- AFTER ALL SYSTEMS HAVE BEEN INSPECTED & ADJUSTED, CONFIRM ALL OPERATING FEATURES REQUIRED BY DRAWINGS & SPECIFICATIONS & MAKE FINAL ADJUSTMENTS AS NECESSARY.

26-1-Z CONDUIT & CONDUCTORS

- ROUGH CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & PROVIDE ALL CONDUITS WITH 1/2" OR GREATER WALL THICKNESS UNLESS NOTED OTHERWISE.
- IF NO CONDUCTOR SIZE IS INDICATED ON DRAWINGS FOR BRANCH CIRCUIT, PROVIDE CONDUCTORS & CONDUIT SIZED PER NFPA 70 & BASED ON INDICATED BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (OCPD) RATING & NUMBER OF POLES.
- BREAKER WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS & FEEDERS GREATER THAN 30A. LIGHT SWITCH RINGS, KITCHEN CIRCUITS & HOME RUNS.
- CONDUITS EXCEEDING BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RATED BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
- PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH.
- LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES.
- CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER

CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

- SUPPORT ALL CONDUCTORS & CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA 70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-MESH SAFETY GRIPS.
- INSTALL ALL CONDUCTORS & CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPACE OR TAP ONLY IN APPROVED BOXES & ENCLOSURES W/ APPROVED SOLDERLESS CONNECTORS. USE OF CRIMP CONNECTORS & TERMINAL BLOCKS FOR CONTROL WIRING, & KEEP TO MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, & JOINTS AS REQUIRED BY CODES.
- ALL MATERIALS USED TO TERMINATE, SPACE OR TAP CONDUCTORS: DESIGNED FOR PROPERLY SIZED FOR & UL LISTED FOR SPECIFIC APPLICATION & CONDUCTORS INVOLVED, & INSTALLED IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.
- WHERE WIRING IS INDICATED AS INSTALLED, BUT CONNECTION IS INDICATED "TYPICAL" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE MINIMUM 3'-FOOT "TYPICAL" AT BOX, TAPE ENDS OF CONDUCTORS, & COVER BOX.
- NUMBER OF CONDUCTORS IN SPECIFIC RACEWAY "HOME RUN" IS INDICATED W/ CROSS LINES (TICK MARKS) ON EACH "CIRCUIT RUN" ON DRAWINGS. IN GENERAL, DIRECTION OF BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON DRAWINGS. COMPLETE W/ CIRCUIT NUMBERS & PANELBOARD DESIGNATION. CONTINUE ALL SUCH "HOME RUN" WIRING TO DESIGNATED PANELBOARD, AS THOUGH "CIRCUIT RUNS" WERE INDICATED ENTIRELY.
- WIRING SHALL HAVE INSULATION OF PROPER COLOR TO MATCH NEC COLOR CODE. IN LARGER SIZES, WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, USE VINYL PLASTIC ELECTRICAL TUBE OF APPROPRIATE COLOR AROUND EACH CONDUCTOR AT ALL TERMINATION POINTS, JUNCTION & PULL BOXES.

26-1-AA RACEWAY INSTALLATION

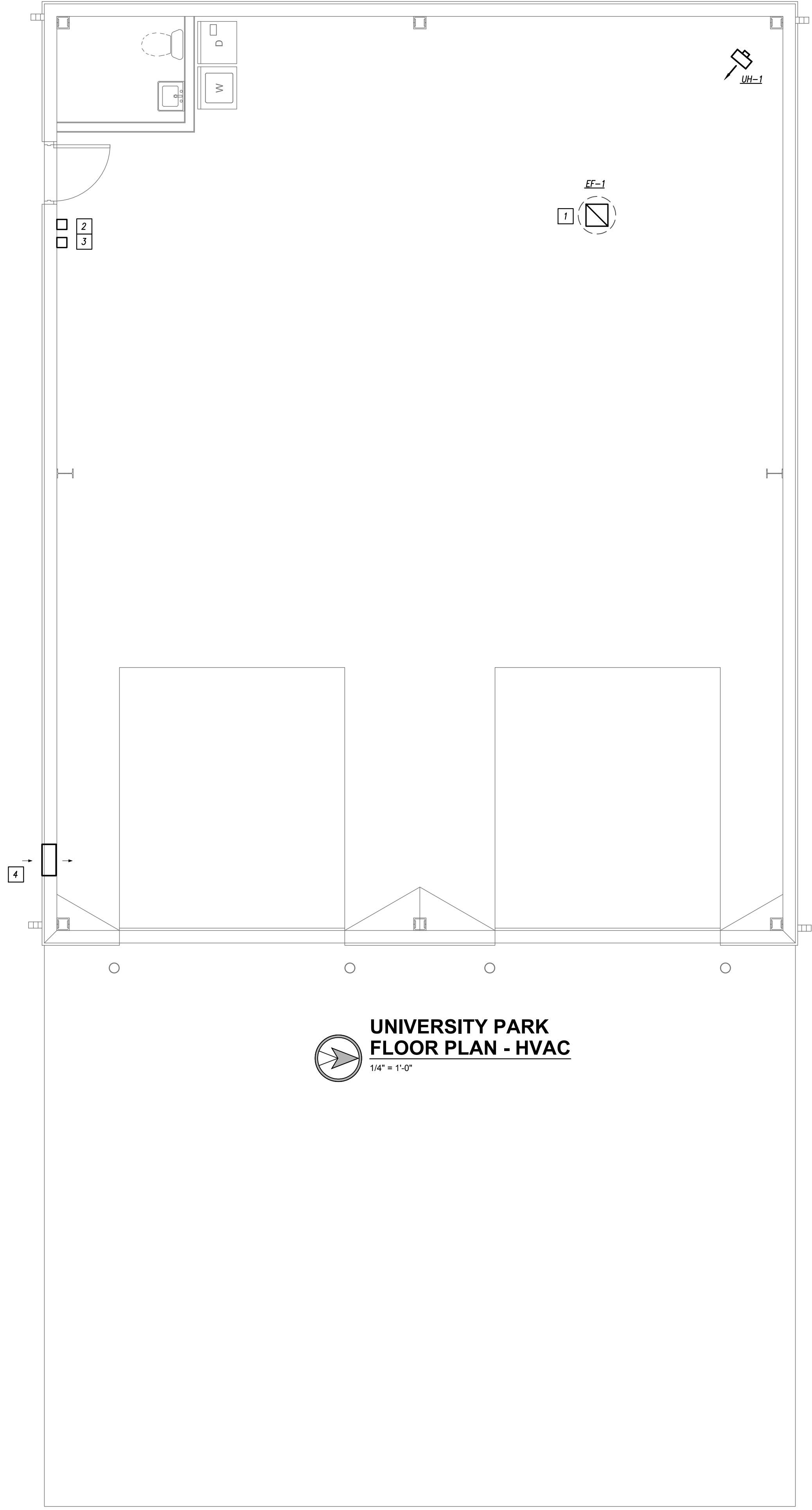
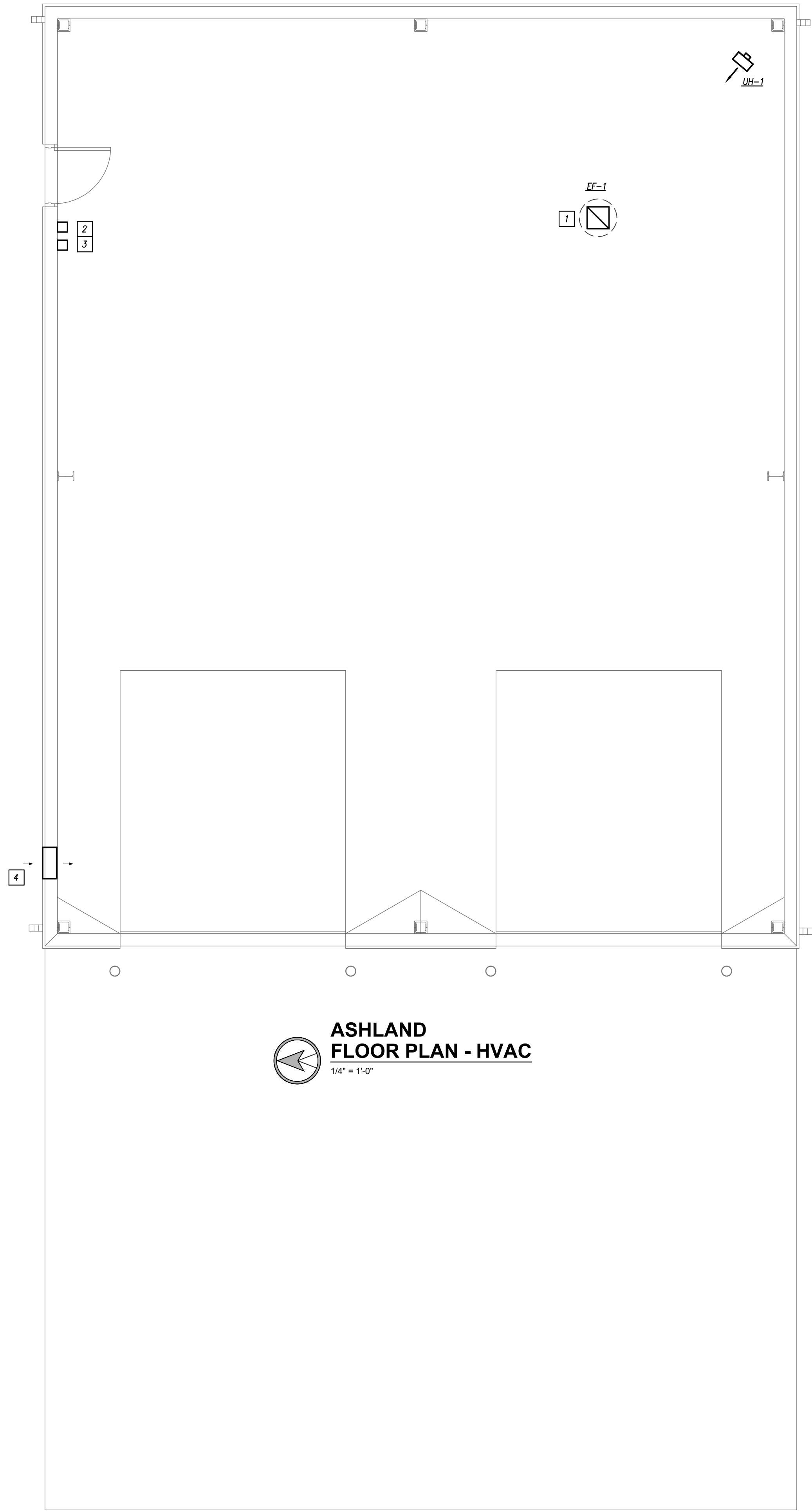
- INSTALL ALL CIRCULAR RACEWAYS CONCEALED ABOVE SUSPENDED CEILINGS OR CONCEALED IN WALLS OR FLOORS WHEREVER POSSIBLE EXCEPT WHERE OTHERWISE INDICATED.
- PROVIDE GRS FOR ALL CONDUITS RUN UNDERGROUND, EXPOSED TO WEATHER, OR EXPOSED TO OTHER HAZARDOUS CONDITIONS. PROVIDE GRS FOR ALL RACEWAYS GRADE W/ CORROSION RESISTANT BONDED-PLASTIC OR APPROVED MASTIC COATING. THIS SHALL INCLUDE 90-DEGREE ELBOW BELOW GRADE & ENTIRE VERTICAL TRANSITION TO ABOVE GRADE.
- ALL OTHER RACEWAY TYPE FITTINGS FOR EMT, W/ ALL FITTINGS UL LISTED FOR ENVIRONMENT IN WHICH THEY ARE USED.
- USE FMC FOR FINAL CONNECTION TO EACH MOTOR & TRANSFORMER, & TO ANY DEVICE THAT WOULD OTHERWISE TRANSMIT MOTION, VIBRATION, OR NOISE. USE LMC WHERE EXPOSED TO LIQUID VAPORS OR SOLID PARTICLES.
- PROVIDE ALL FMC & LMC W/ AN INSULATED BONDING CONDUCTOR.
- INSTALL RACEWAYS PARALLEL & PERPENDICULAR TO BUILDING LINES.
- INSTALL RACEWAYS TO REQUIREMENTS OF STRUCTURE & TO REQUIREMENTS OF ALL OTHER WORK ON PROJECT. INSTALL RACEWAYS TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, & OTHER IMMOVABLE OBSTACLES. INSTALL RACEWAYS SET IN FORMS FOR CONCRETE STRUCTURE IN SUCH MANNER THAT INSTALLATION WILL NOT AFFECT STRENGTH OF STRUCTURE.
- INSTALL RACEWAYS CONNECTIONS BETWEEN CONNECTIONS TO OUTLETS, BOXES & CABINETS W/ MINIMUM POSSIBLE NUMBER OF BENDS & NOT MORE THAN EQUIVALENT OF FOUR 90-DEGREE BENDS BETWEEN CONNECTIONS. USE MANUFACTURED ELBOWS FOR ALL 45° & 90-DEGREE BENDS, UNLESS APPROVED BY ENGINEER. IN ADVANCE, MAKE OTHERS: ELBOW, 45° BEND, 90° BEND, & WITHOUT FLATTENING RACEWAY OR FLAKING GALVANIZING OR ENAMEL. RADI OF BENDS SHALL BE AS LONG AS POSSIBLE & NEVER SHORTER THAN CORRESPONDING TRADE ELBOW. USE LONG RADIIUS ELBOWS WHERE NECESSARY, INDICATED, OR BOTH.

- SECURELY FASTEN RACEWAYS IN PLACE W/ APPROVED STRAPS, HANGERS & STEEL SUPPORTS AS REQUIRED. ATTACH RACEWAY SUPPORTS TO BUILDING STRUCTURE. HANG SINGLE RACEWAYS FOR FEEDERS W/ MALLEABLE SPLIT RING HANGERS W/ ROD & TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE.
- CLAMP GROUPS OF HORIZONTAL FEEDER RACEWAYS TO STEEL CHANNELS THAT ARE SUSPENDED FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. SECURELY CLAMP VERTICAL FEEDER RACEWAYS TO STEEL STRUCTURAL MEMBERS ATTACHED TO STRUCTURE. INSTALL CABLE CLAMPS FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. ADD RACEWAY SUPPORTS WITHIN 12 INCHES OF ALL BENDS, ON BOTH SIDES OF BENDS. DO NOT SUPPORT RACEWAYS FROM MANUFACTURER'S INSTRUCTIONS.
- REAR RACEWAY ENDS, THOROUGHLY CLEAN RACEWAYS BEFORE INSTALLATION, & KEEP CLEAN AFTER INSTALLATION. PLUG OR COVER OPENINGS & BOXES AS REQUIRED TO KEEP RACEWAYS CLEAN DURING CONSTRUCTION & FISH ALL RACEWAYS CLEAR OF OBSTRUCTIONS BEFORE PLACING CONDUITS. PROVIDE RACEWAYS OF AMPLE SIZE FOR PULLING OF WIRE & NOT SMALLER THAN CODE REQUIREMENTS & NOT LESS THAN 1/2-INCH IN SIZE, UNLESS INDICATED OTHERWISE ON DRAWINGS.

- PROTECT ALL RACEWAY INSTALLATIONS AGAINST DAMAGE DURING CONSTRUCTION. REPAIR ALL RACEWAYS DAMAGED OR MOVED OUT OF LINE AFTER ROUGH-IN-TO MEET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO OWNER.
- ALIGN & INSTALL TRUE & PLUMB ALL RACEWAY TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, MOTOR & CONTROL EQUIPMENT & SIMILAR STRUCTURAL.
- INSTALL APPROVED EXPANSION/DEFLECTION FITTINGS WHERE RACEWAYS PASS THROUGH (IF EMBEDDED) OR ACROSS (IF EXPOSED) JOINTS.
- INSTALL PULL WIRE IN EACH EMPT RACEWAY THAT IS LEFT FOR INSTALLATION OF CONDUCTORS OR CABLES UNDER OTHER DIVISIONS OR CONTRACTS. USE POLYPROPYLENE OR MONOPOLYMER PLASTIC LINE. LEAVE MIN. 24" SLACK AT EACH END.
- MAKE ALL JOINTS & CONNECTIONS IN MANNER THAT WILL ENSURE MECHANICAL STRENGTH & ELECTRICAL CONTINUITY.
- EFFECTIVELY SEAL RACEWAYS, BY INSTALLING CONDUIT FITTING AT BOUNDARY OF TWO SPACES, & FILLING IT W/ AN APPROVED PLUMBABLE MATERIAL, AFTER CONDUCTORS OR CABLES HAVE BEEN INSTALLED & TESTED, WHENEVER RACEWAYS PASS FROM NON-COOLED TO COOLED SPACES OR TRANSITION FROM OUTSIDE FACILITY OR ENCLOSURE TO INSIDE, WHETHER BURIED OR EXPOSED.

26-1-BB BUSHINGS & LOCUNITS

- RIGIDLY TERMINATE CONDUITS ENTERING STEEL METAL ENCLOSURES TO ENCLOSURE W/ BUSHING & LOCKING OR NON-LOCKING HUB ON AN APPROVED HUB ON OUTSIDE. CONDUIT SHALL ENTER ENCLOSURE SQUARELY.
- PROVIDE BUSHINGS & LOCUNITS MADE OF GALVANIZED MALLEABLE IRON W/ SHARP, CLEAN-CUT THREADS. WHERE EMT ENTERS BOX, PROVIDE APPROVED EMT BUSHING. PROVIDE CAST OR F



GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF THE DUCTWORK AND PIPING WITH POSITION AND LAYOUT OF THE STRUCTURE. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR DUCTWORK AND PIPING AS NEEDED TO INSTALL THE HVAC SYSTEM AS DESIGNED WITHIN THE STRUCTURE. DO NOT CUT OR DRILL THROUGH BEAMS OR PANS WITHOUT PRIOR APPROVAL FROM ENGINEER.
3. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
4. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
5. ALL RUNOUTS TO TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN BOX INLETS UNLESS NOTED OTHERWISE.
6. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
7. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
8. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
9. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
10. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

PLAN KEYED NOTES

- 1 EF-1 WITH 14X14 EXHAUST DUCT DOWN 6" BELOW CEILING, PROVIDE WITH BIRD SCREEN OVER END OF DUCT. INTERLOCK WITH OUTSIDE AIR LOUVER. FAN SHALL OPERATE WHEN RELAY IS ENERGIZED BY HUMIDISTAT OR WALL TIMER.
- 2 PROVIDE A 120V. HUMIDISTAT AT 8' AFF. REFER TO EF-1 CONTROL SCHEMATIC. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 3 PROVIDE A 120V. TIMER SWITCH AT 4' AFF. REFER TO EF-1 CONTROL SCHEMATIC COORDINATE WITH ELECTRICAL CONTRACTOR
- 4 20X20 INTAKE LOUVER. GREENHECK MODEL #ESD-435 WITH MOTORIZED DAMPER. EXHAUST FANS (EF-1) SHALL OPEN WITH LOUVER WHEN COMMANDED BY THE TIMER SWITCH OR HUMIDISTAT SENSOR IS ACTIVATED.



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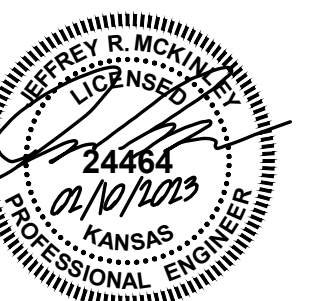
DREAM. CREATE. INSPIRE.

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Riley County Fire District #1
University Park #110
Ashland Bottoms #102
Manhattan, Kansas

JOB NO: 21-022
DATE: 02.10.2023

ISSUE RECORD:
Construction Documents

REVISIONS:	

HVAC Floorplan

M1.01



PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
2505 ANDERSON AVE, #202 MANHATTAN, KS 66502
785.320.5260 WWW.PKIRENG.COM

21.337

EXHAUST FAN SCHEDULE

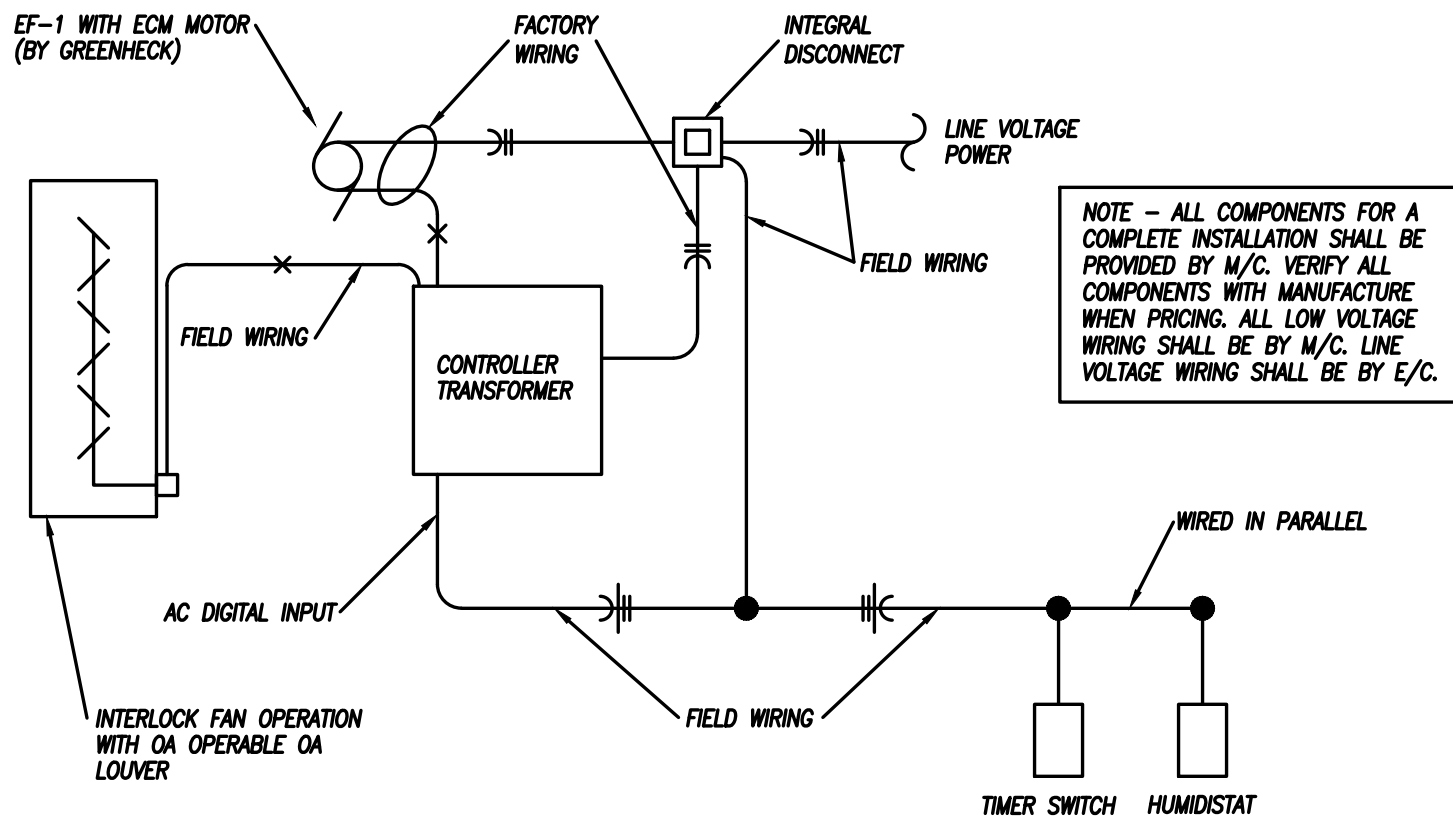
PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	SERVICE	CFM	STATIC PRESSURE	ELECTRICAL	DRIVE	DISCONNECT	DAMPER	NOTES
EF-1	GREENHECK	CUE-141-VG	ROOF	EXHAUST	1500	1/4"	1/4 HP, 120V, 1 PH.	DIRECT	YES	MOTORIZED	1,2,3,4

- NOTES LEGEND
- COORDINATE ROOF CURB WITH METAL BUILDING MANUFACTURER TO ENSURE A WATER TIGHT WARRANTY CAN BE ISSUED.
 - INTERLOCK EXHAUST FAN TO LOUVER.
 - PROVIDE WITH BIRD SCREEN.
 - INTERLOCK EXHAUST FAN WITH HUMIDISTAT AND TIMER SWITCH.

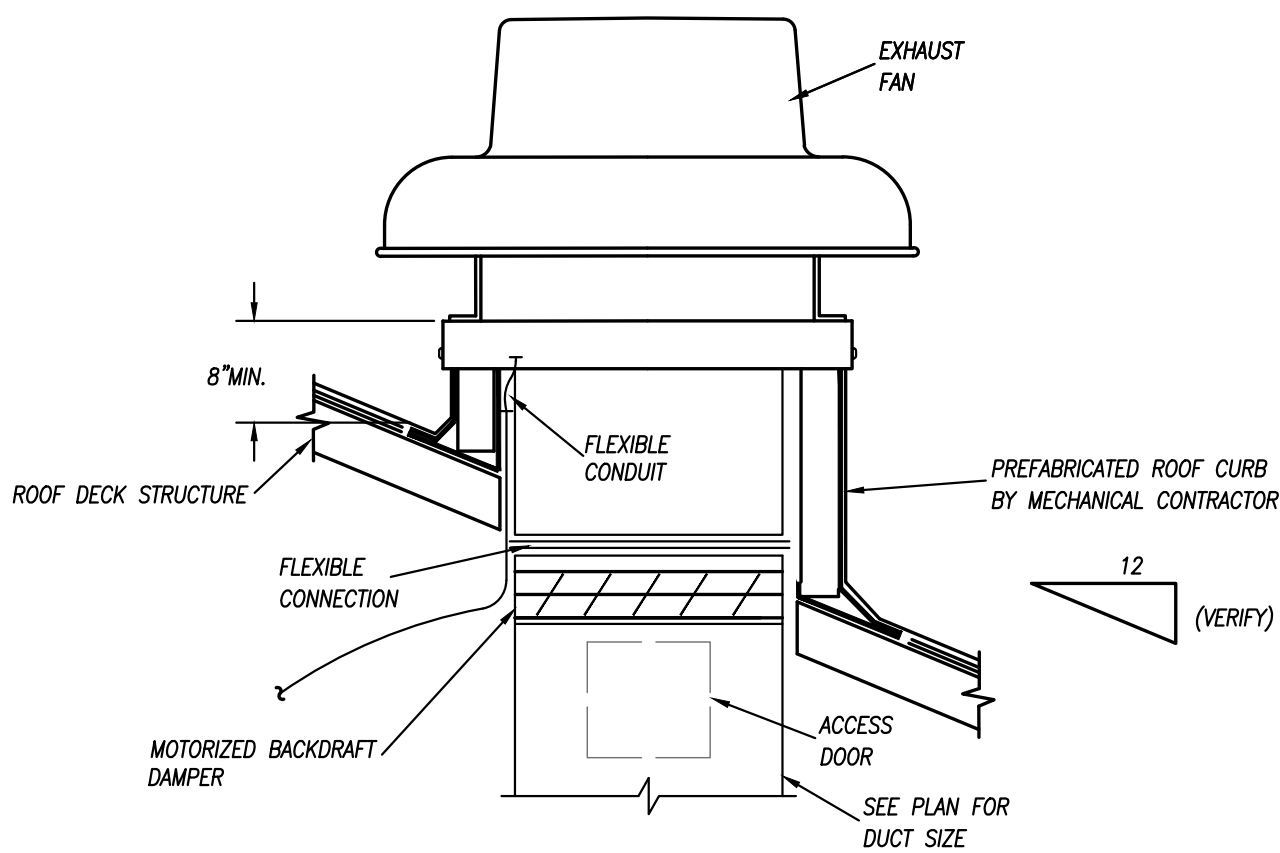
GAS UNIT HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	FAN HP	INPUT (MBH)	OUTPUT (MBH)	EFF.	ELECTRICAL	REMARKS
UH-1	REZNOR	UDAS	1,345	1/30	75.0	62.2	83.0%	120V / 1PH	1,2,3,4,5,6

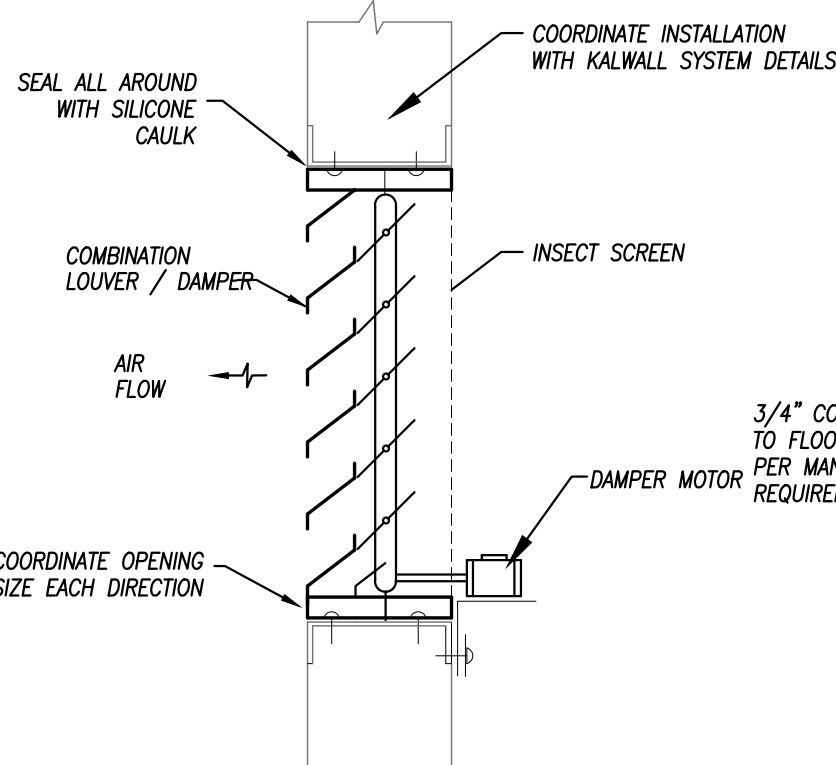
- REMARKS:
- PROVIDE WITH UNIT-MOUNTED THERMOSTAT.
 - PROVIDE WITH INTEGRAL DISCONNECT.
 - PROVIDE SUSPENSION KIT AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION.
 - PROVIDE ALL ACCESSORIES FOR NG (NATURAL GAS) OPERATION.
 - VERTICAL COMBUSTION AIR/VENT KIT.
 - PROVIDE PROPANE CONVERSION KIT



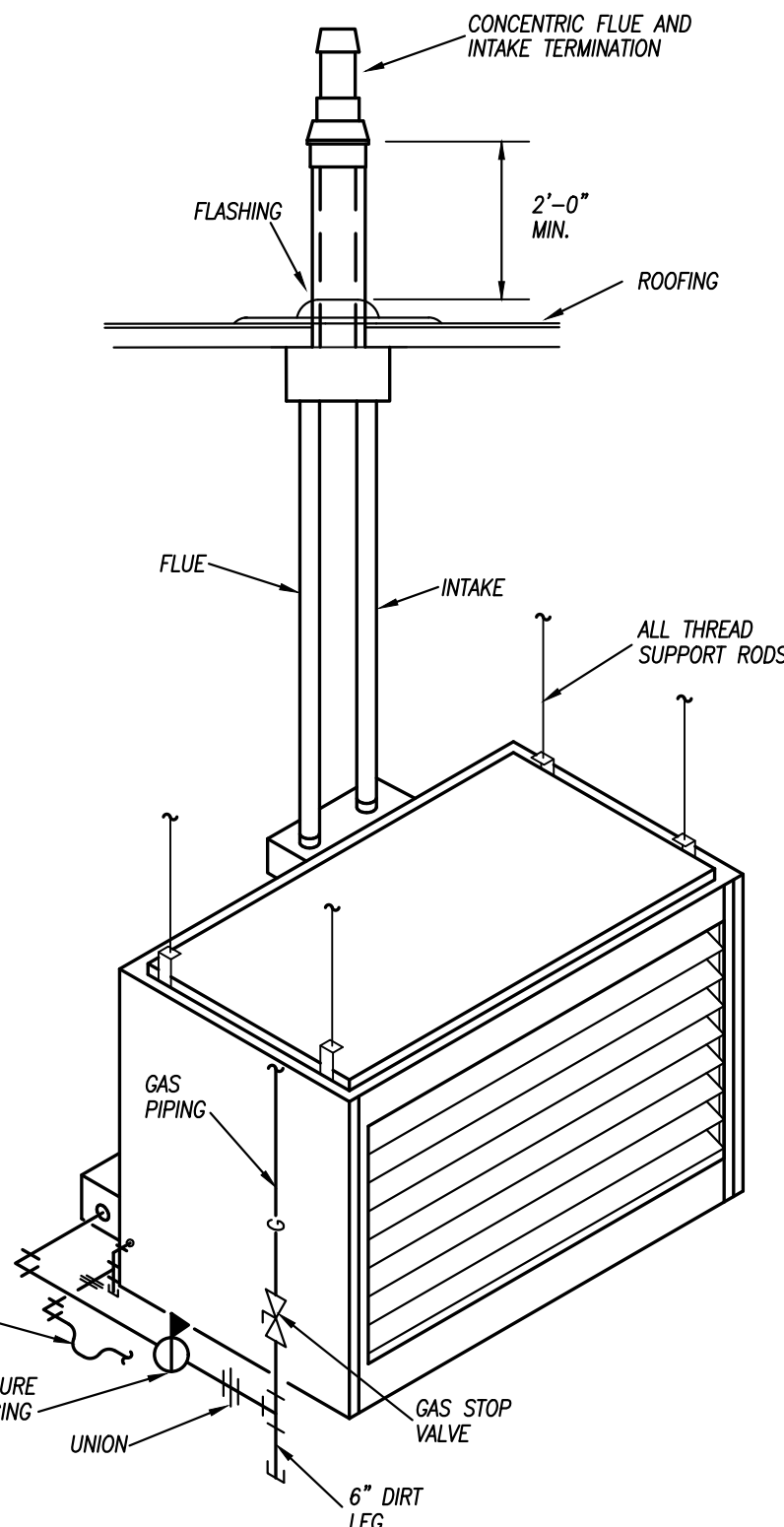
EF-1 CONTROL SCHEMATIC
NO SCALE



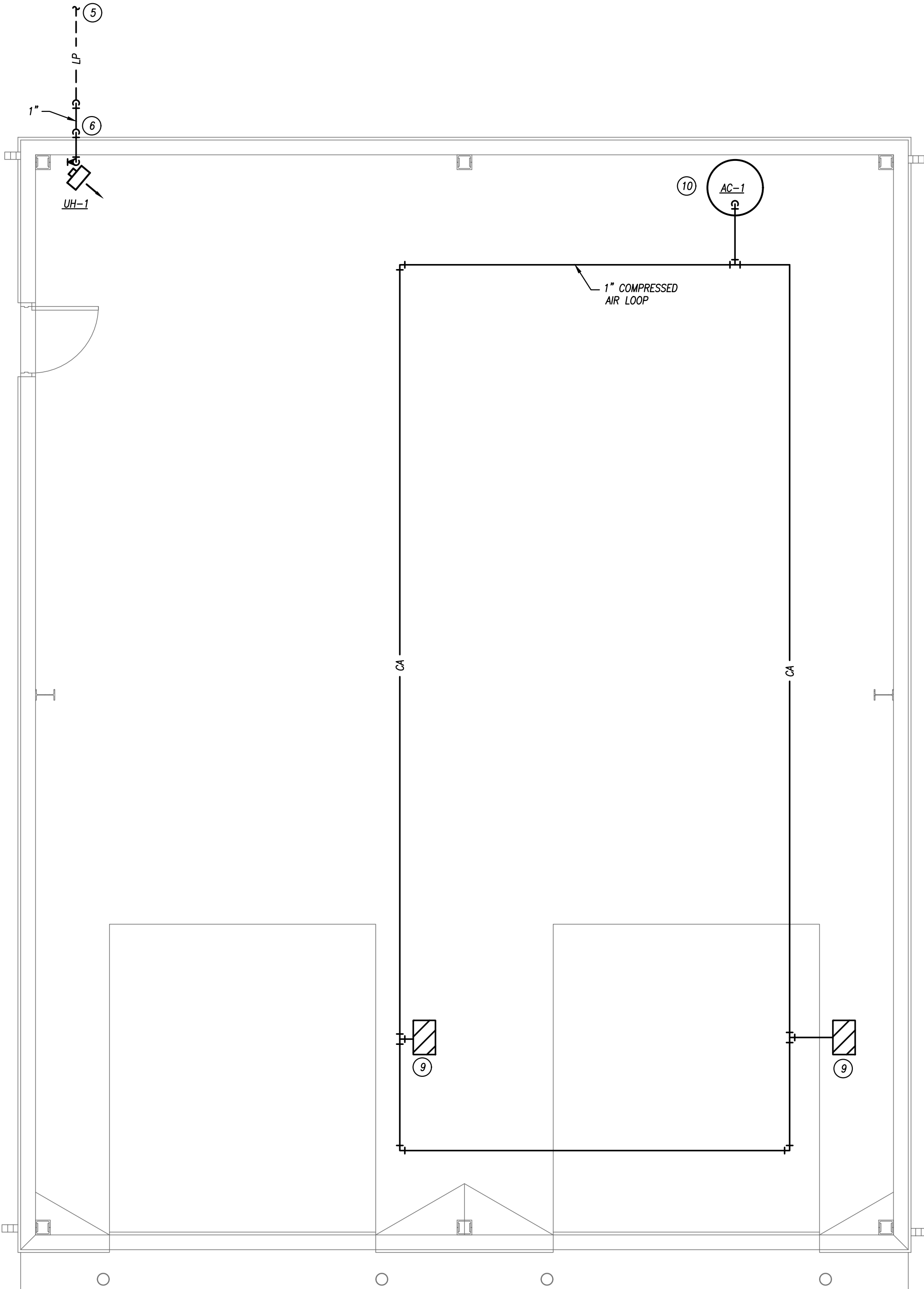
ROOF MOUNTED EXHAUST FAN DETAIL
NO SCALE



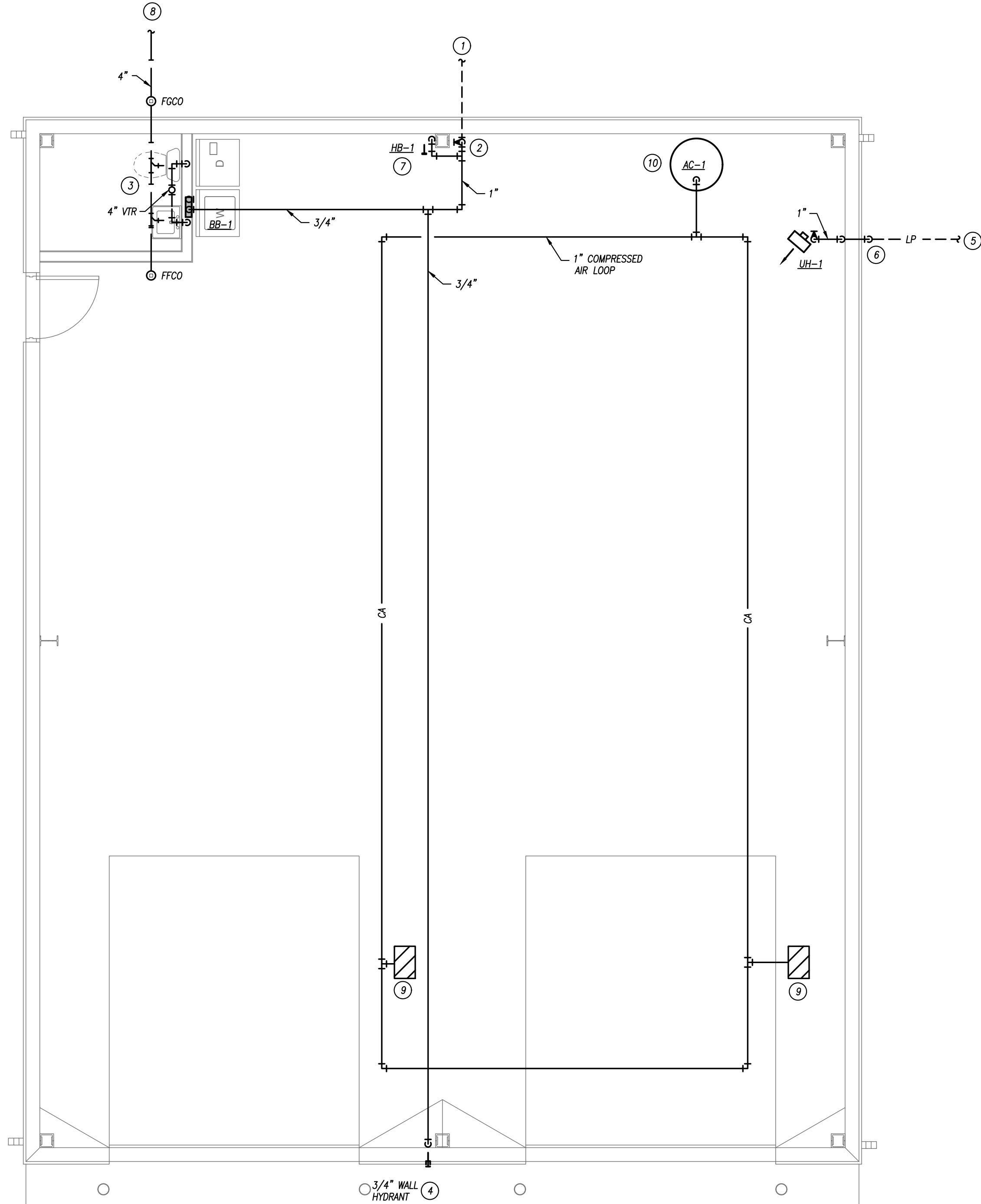
TYPICAL LOUVER DETAIL
NOT TO SCALE



GAS FIRED UNIT HEATER DETAIL
NO SCALE



**ASHLAND
FLOOR PLAN - PLUMBING**
1/4" = 1'-0"



**UNIVERSITY PARK
FLOOR PLAN - PLUMBING**
1/4" = 1'-0"

GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF PIPING WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR PIPING AS NEEDED TO INSTALL THE PLUMBING SYSTEM TO CLEAR STRUCTURE AND OTHER SYSTEMS IN CONFLICT WITH PIPE ROUTING.
3. NO PIPING SHALL BE INSTALLED WHERE IT WILL BE SUBJECT TO FREEZING TEMPERATURES. COORDINATE EXACT ROUTING OF ALL PIPING WITH OTHER TRADES, EQUIPMENT AND PLUMBING FIXTURES.
4. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
5. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
6. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
7. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
8. NOT ALL CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.

PLUMBING PLAN KEYED NOTES

1. CONNECT 1" DCW LINE TO CITY MAIN. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE MAIN SHUT-OFF VALVE AT DCW LINE ENTRANCE INTO BUILDING.
3. ROUGH IN SANITARY FOR WATER CLOSET AND LAVATORY.
4. WALL HYDRANT SHALL BE NON-FREEZE, ANTI-SIPHON, AND AUTO-DRAINING. ZURN MODEL# Z1321 OR EQUIVALENT.
5. CONNECT 1" PROPANE LINE TO PROPANE TANK. SEE CIVIL DRAWINGS FOR CONTINUATION.
6. PROVIDE PROPANE GAS PRESSURE REGULATOR AND MAIN SHUT-OFF VALVE AT PROPANE LINE ENTRANCE INTO BUILDING.
7. HOSE BIBB SHALL BE ZURN MODEL Z1341XL-C12 OR EQUAL.
8. 4" SANITARY MAIN. SEE CIVIL PLANS FOR CONTINUATION. SANITARY LINE DEPTH @ BUILDING EXIST APPROXIMATELY 40" BELOW GRADE.
9. PROVIDE COMPRESSED AIR HOSE REEL, REFER TO DETAIL.
10. AIR COMPRESSOR SHALL BE PROVIDED BY OWNER, CONTRACTOR SHALL INSTALL.



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University Park #110
Ashland Bottoms #102
Manhattan, Kansas

JOB NO: 21-022
DATE: 02.10.2023

ISSUE RECORD:
Construction Documents

REVISIONS:	

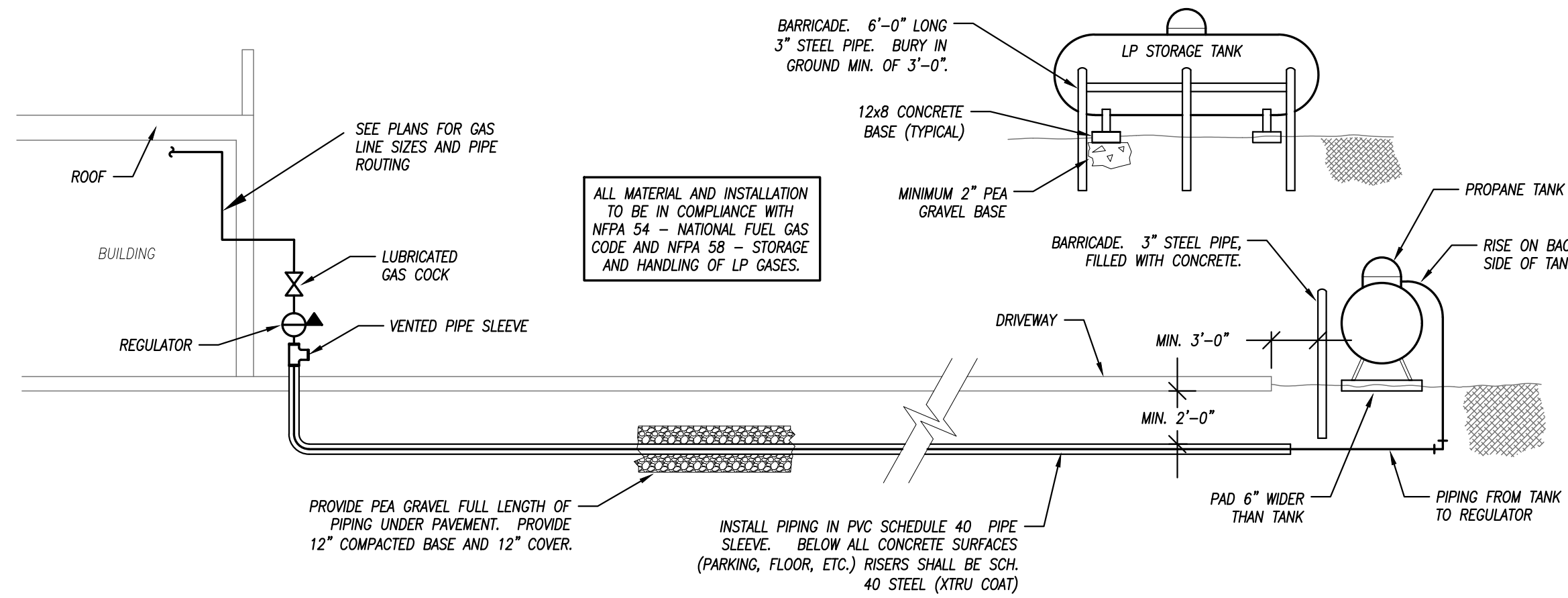
Plumbing Floorplan

P1.01

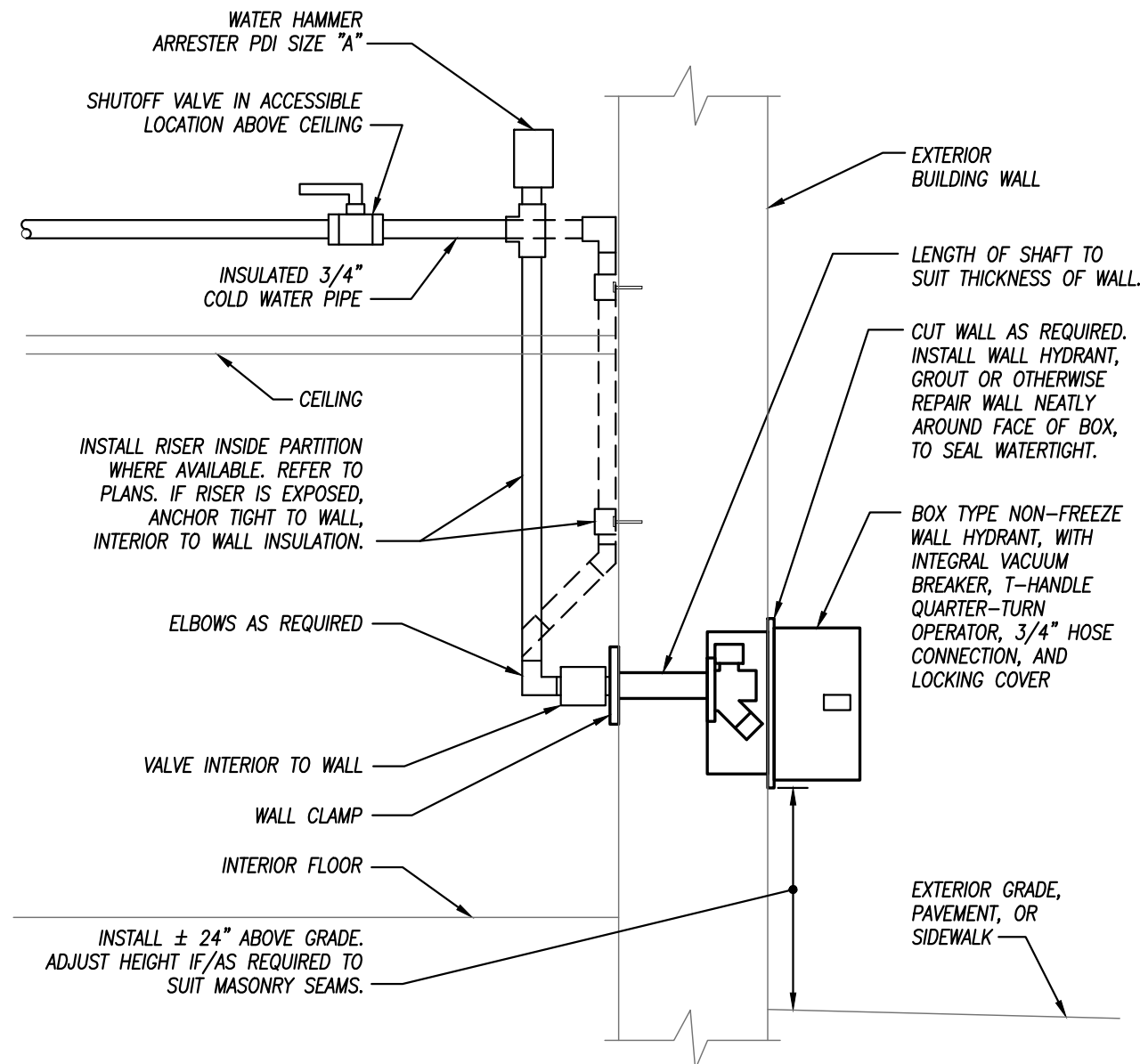


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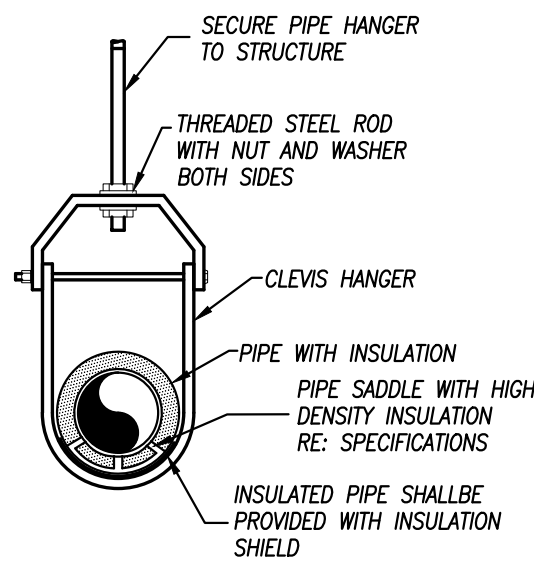
21.337



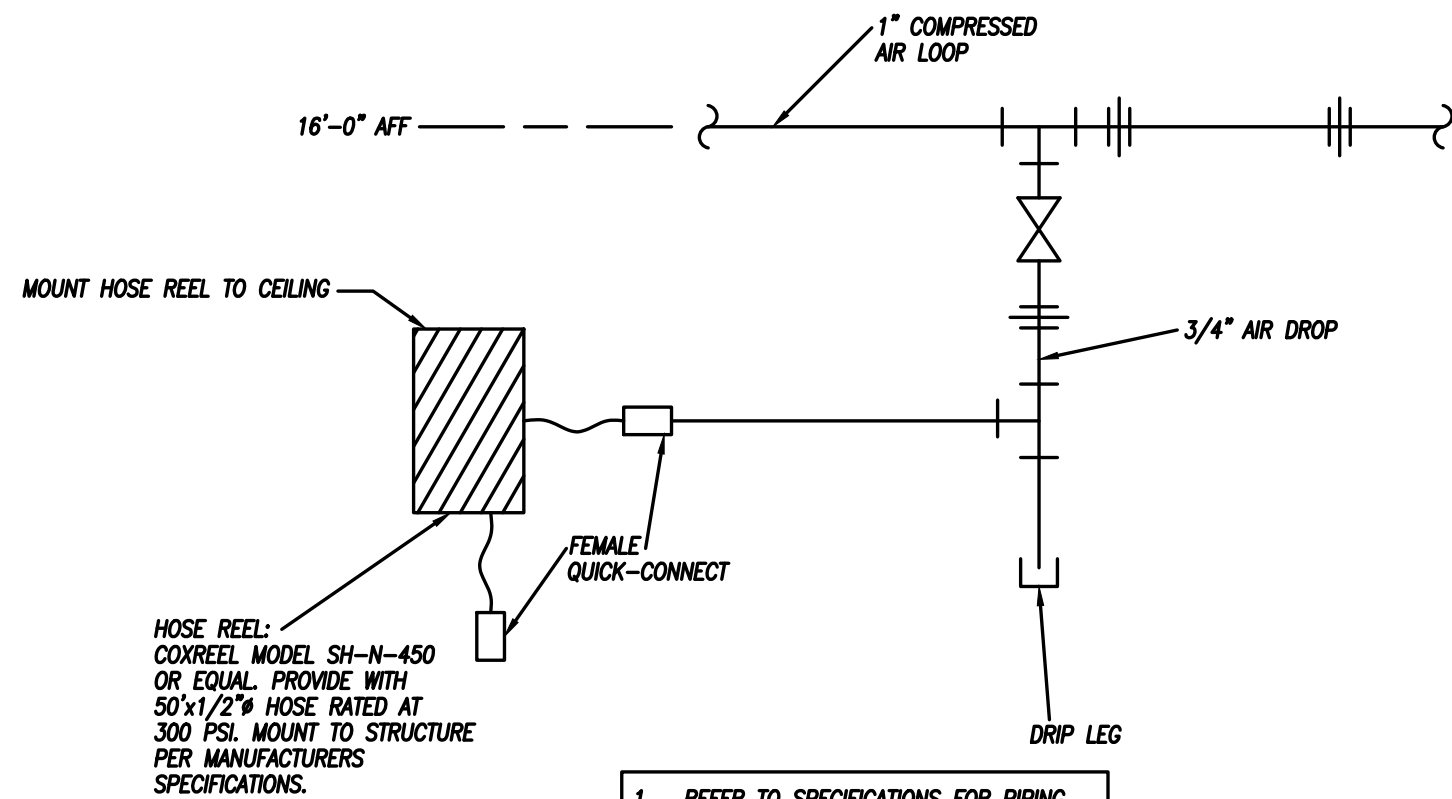
LP GAS SUPPLY DETAIL
NOT TO SCALE



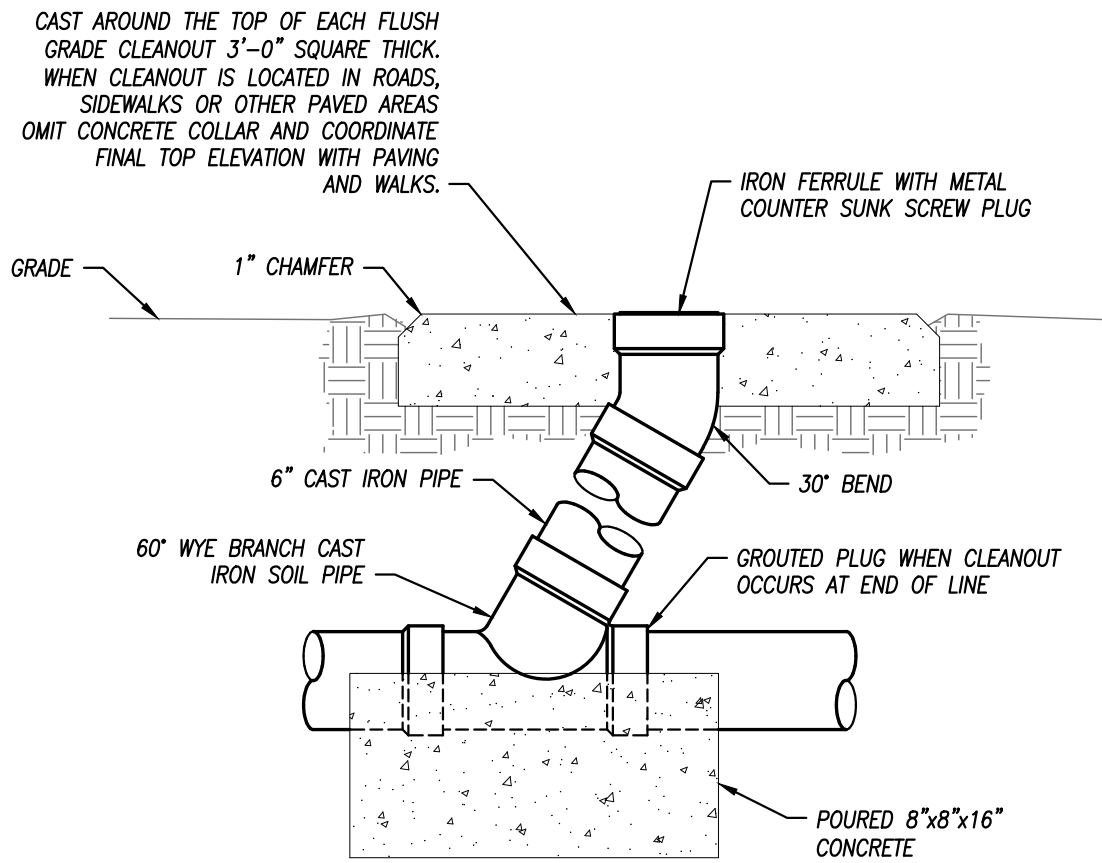
NON-FREEZE WALL HYDRANT DETAIL
NOT TO SCALE



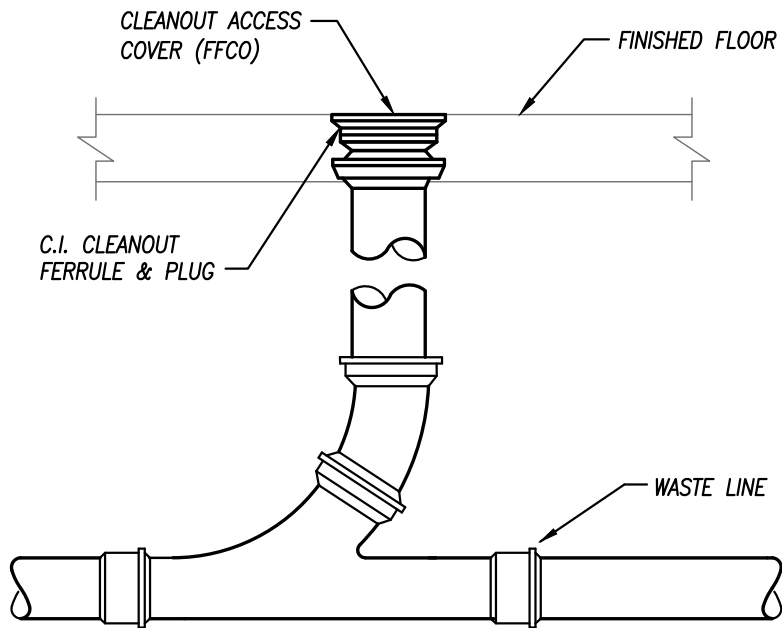
PIPE HANGER DETAIL
NOT TO SCALE



COMPRESSED AIR DROP DETAIL
NO SCALE



FLUSH GRADE CLEANOUT DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NO SCALE

1. REFER TO SPECIFICATIONS FOR PIPING MATERIALS AND SUPPORT REQUIREMENTS.
2. COORDINATE QUICK-CONNECT TYPE WITH OWNER.
3. REFER TO P1 FOR HOSE REEL AND AIR DROP LOCATION.

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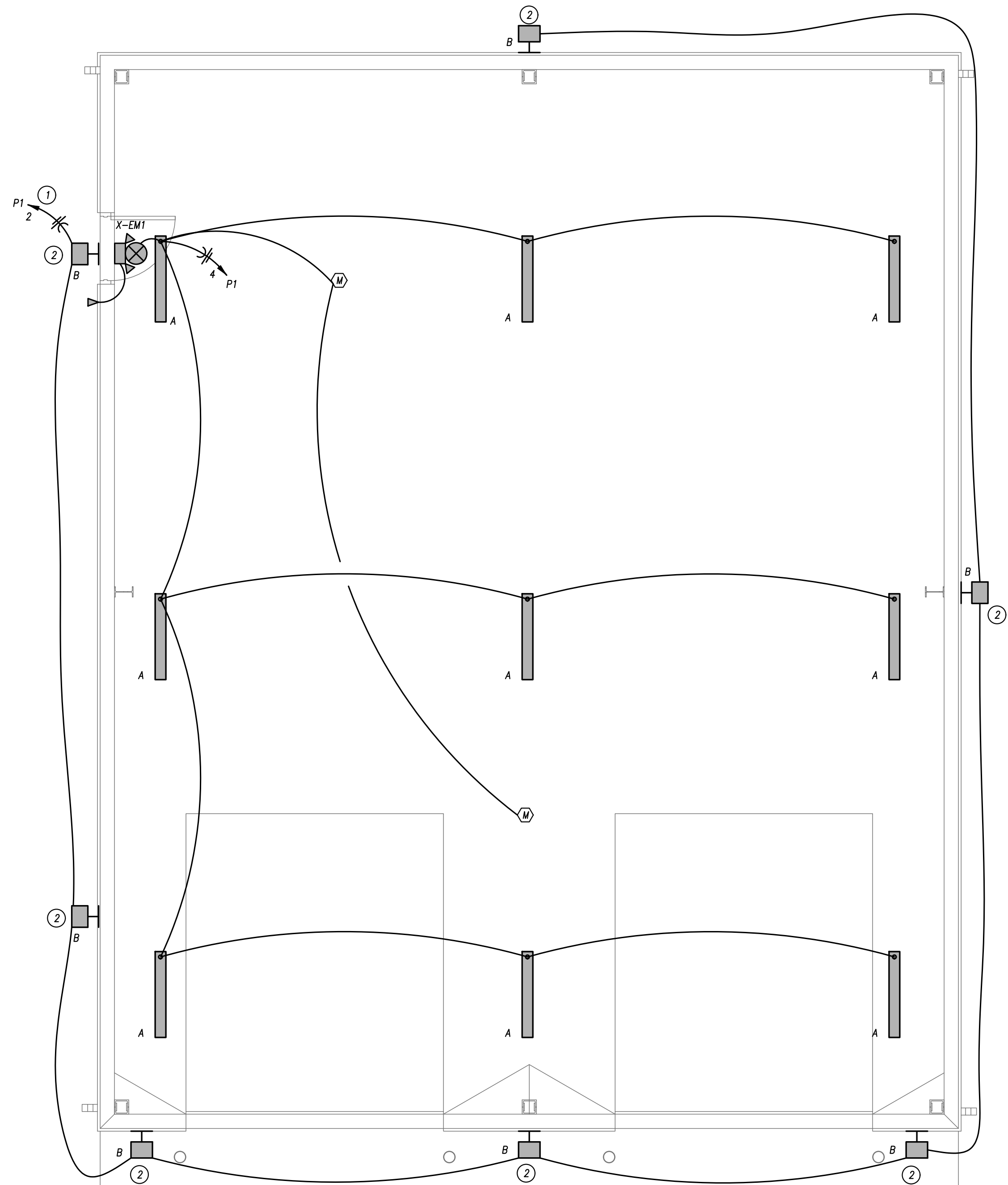
Plumbing Schedules & Details

P2.01

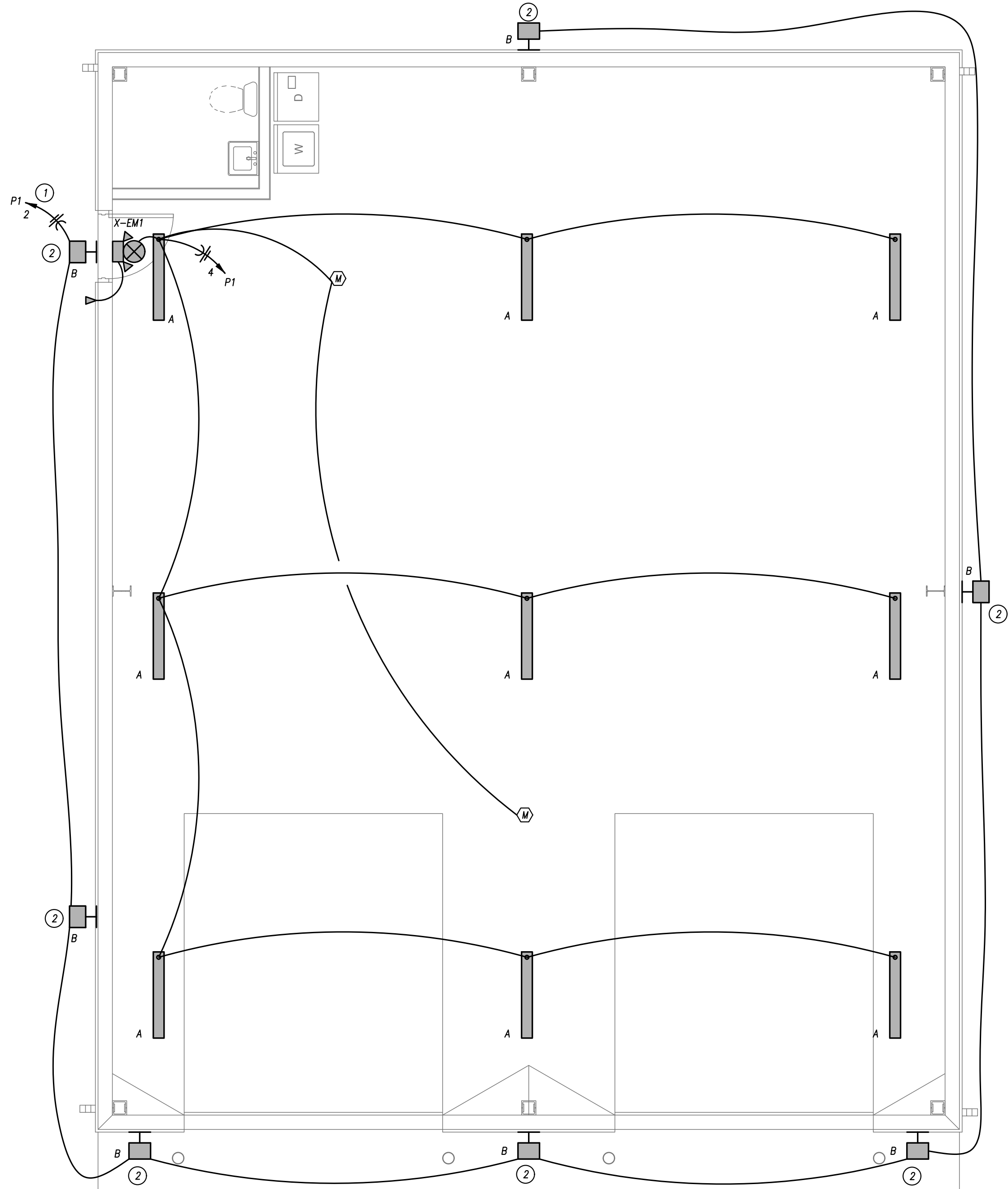
pkmr
ENGINEERS

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21.337



**ASHLAND
FLOOR PLAN - LIGHTING**
1/4" = 1'-0"



**UNIVERSITY PARK
FLOOR PLAN - LIGHTING**
1/4" = 1'-0"

GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
 - 3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISSY-CHAINING OF FIXTURES IS NOT ALLOWED.
 - 3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
 - 3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
 - 3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN KEYED NOTES

- ① CIRCUIT THRU PHOTOCELL ON/OFF
- ② MOUNT AT 14'-0" AFF

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Ashland Bottoms #102
Manhattan, Kansas

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Lighting Floorplan

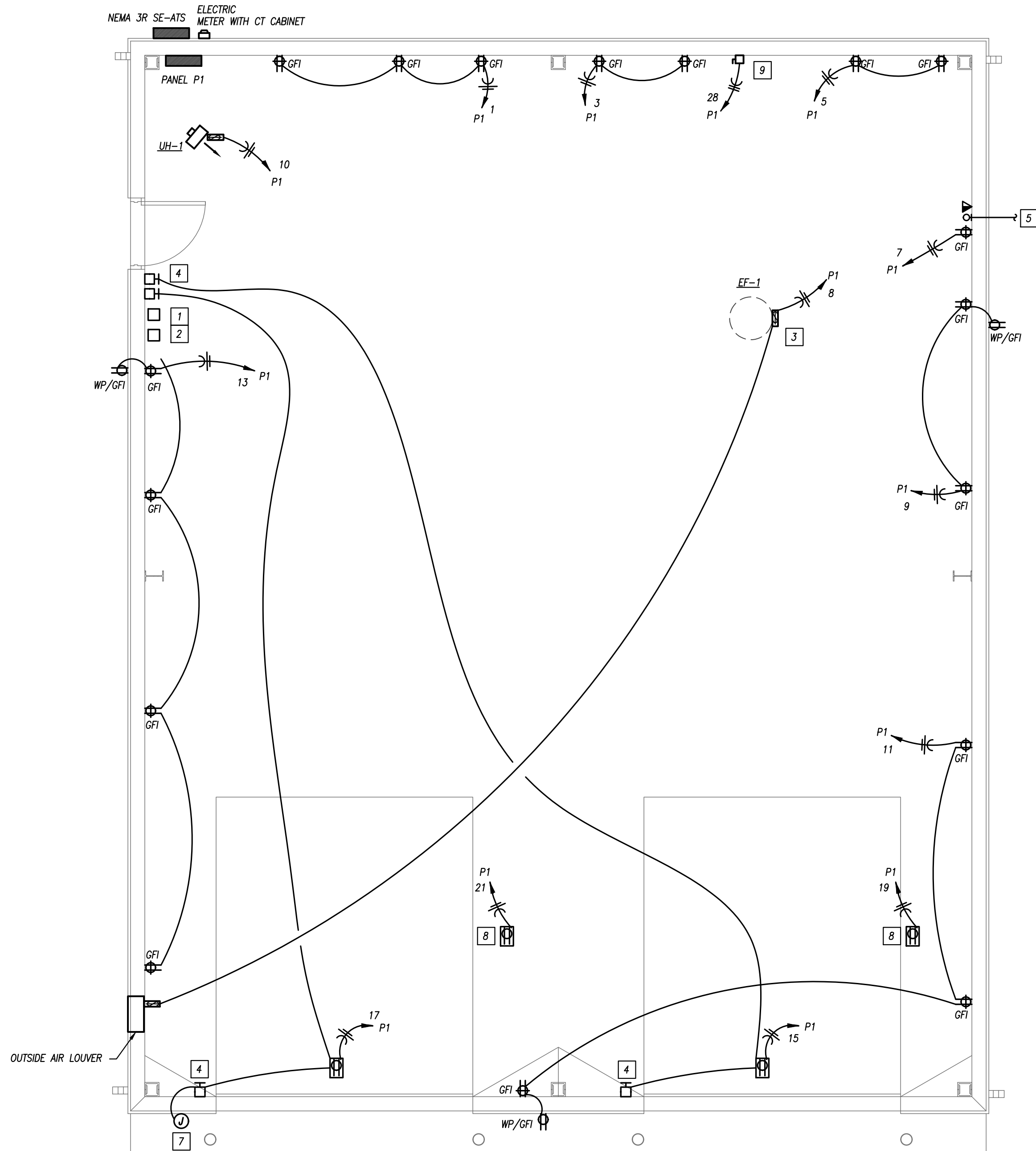
E1.01

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VERIFY EXACT LOCATION OF GENERATOR ON SITE WITH OWNER AND G.C.

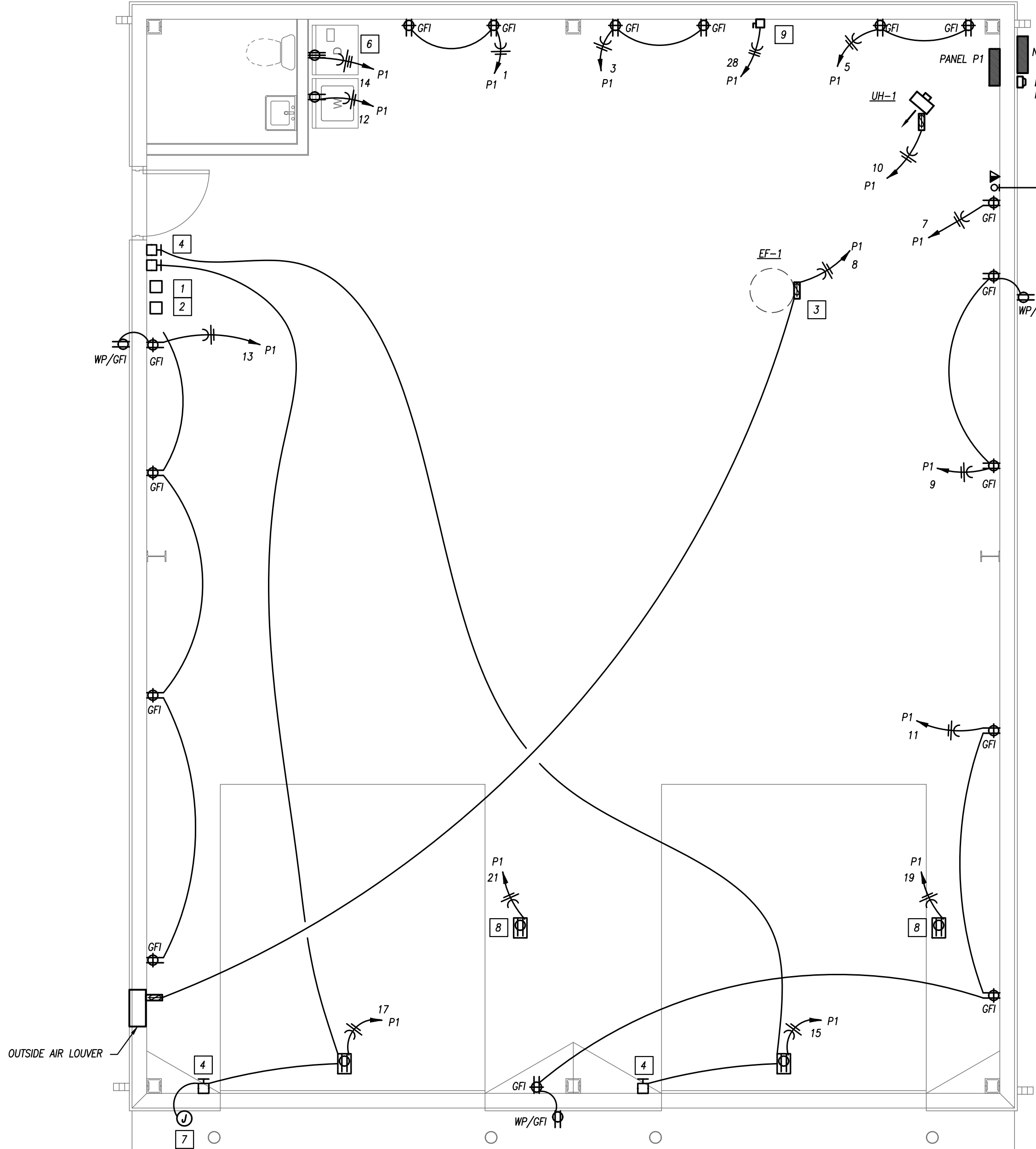
GENERATOR



ASHLAND
FLOOR PLAN - POWER
1/4" = 1'-0"

VERIFY EXACT LOCATION OF GENERATOR ON SITE WITH OWNER AND G.C.

GENERATOR



UNIVERSITY PARK
FLOOR PLAN - POWER
1/4" = 1'-0"

GENERAL POWER NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
4. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

POWER PLAN KEYED NOTES

- 1 120V HUMIDISTAT PROVIDED BY M/C INSTALLED BY E/C. COORDINATE WITH MECHANICAL CONTRACTOR. REFER TO DETAIL.
- 2 120V TIMER SWITCH PROVIDED BY M/C INSTALLED BY E/C. COORDINATE WITH MECHANICAL CONTRACTOR. REFER TO DETAIL.
- 3 REFER TO WIRING DIAGRAM FOR EF-1
- 4 PROVIDE 3-WAY OVERHEAD DOOR OPENERS VERIFY LOCATION OF OVERHEAD DOOR OPENER WITH OWNER
- 5 2" CONDUIT TO DEMARC LOCATION
- 6 DRYER 30A WITH (4) #10 IN 3/4" C.
- 7 KEYPAD FOR OVERHEAD DOOR
- 8 MOUNT RECEPTACLE IN CEILING FOR OVERHEAD POWER CORD REEL. REELCRAFT #LG3040-123-9. SECURE REEL TO BUILDING STRUCTURE. VERIFY LOCATIONS WITH OWNER.
- 9 FOR AIR COMPRESSOR PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. 60A, 2P, D.S., FUSED AT 50 A, WITH (3) #6 AND (1) #8 GND, IN 1" C. (VERIFY)

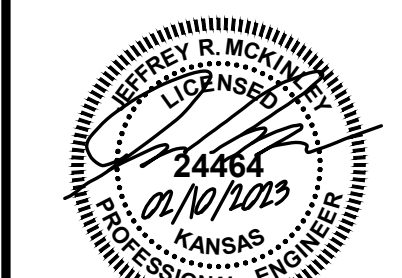


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DATE: 02.10.2023

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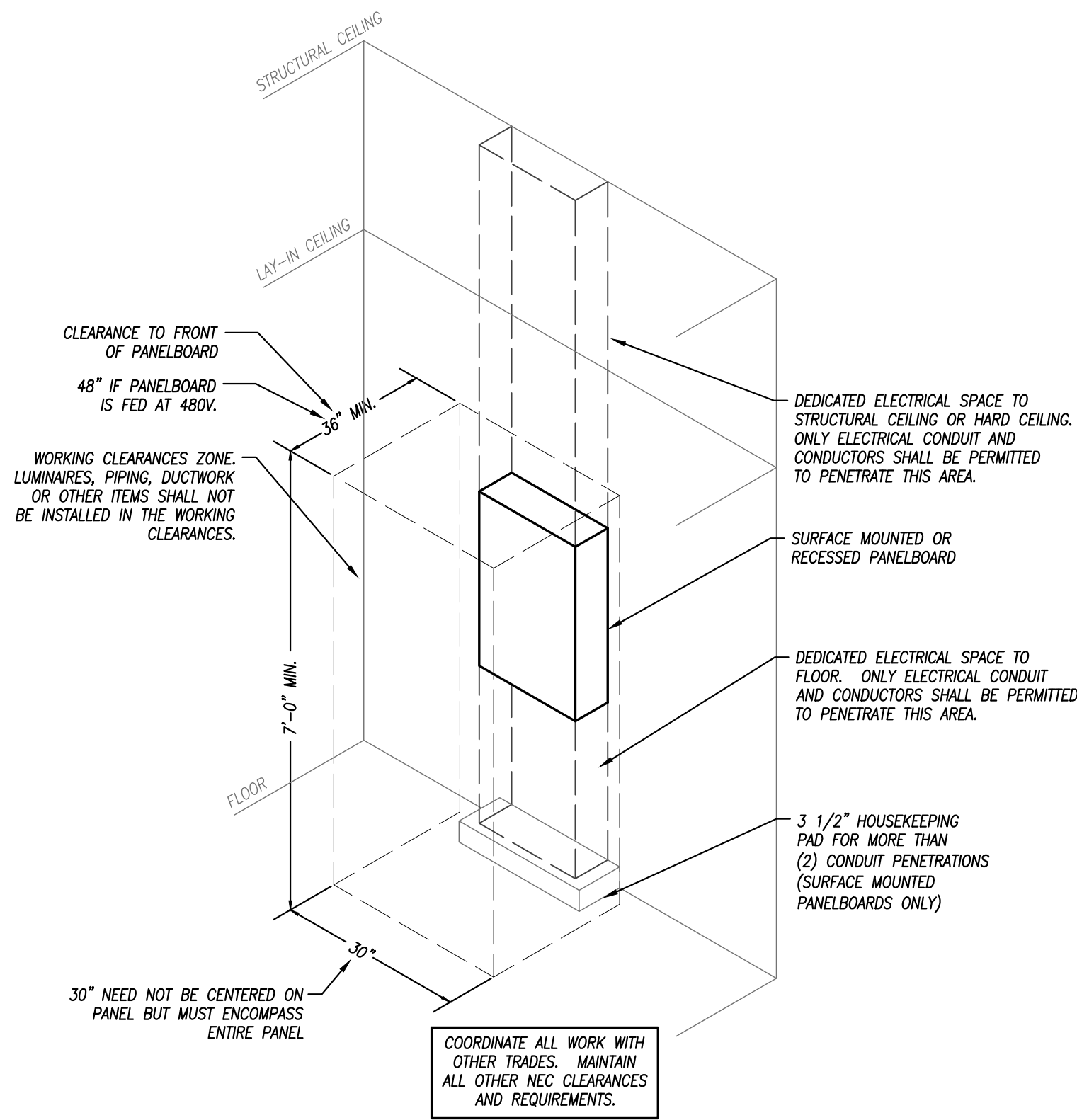
Power Floorplan

E2.01

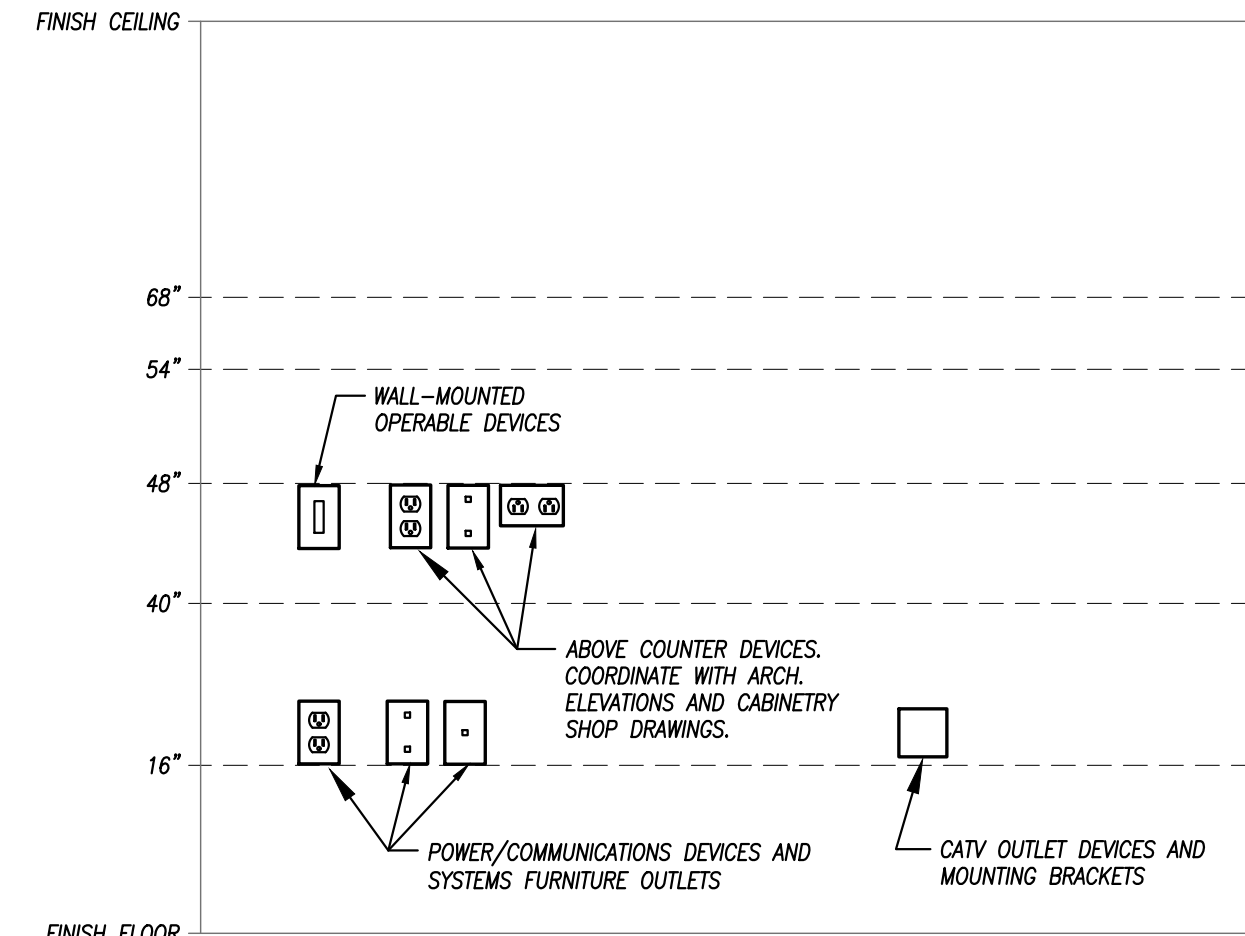


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21.337



TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE. WALL-MOUNTED TELEPHONE JACKS WITH SIDE ACCESSIBILITY MAY BE MOUNTED UP TO 54" A.F.F.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
ADJUSTABLE THERMOSTATS
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
OTHER CONTROL OR "CALL" DEVICES

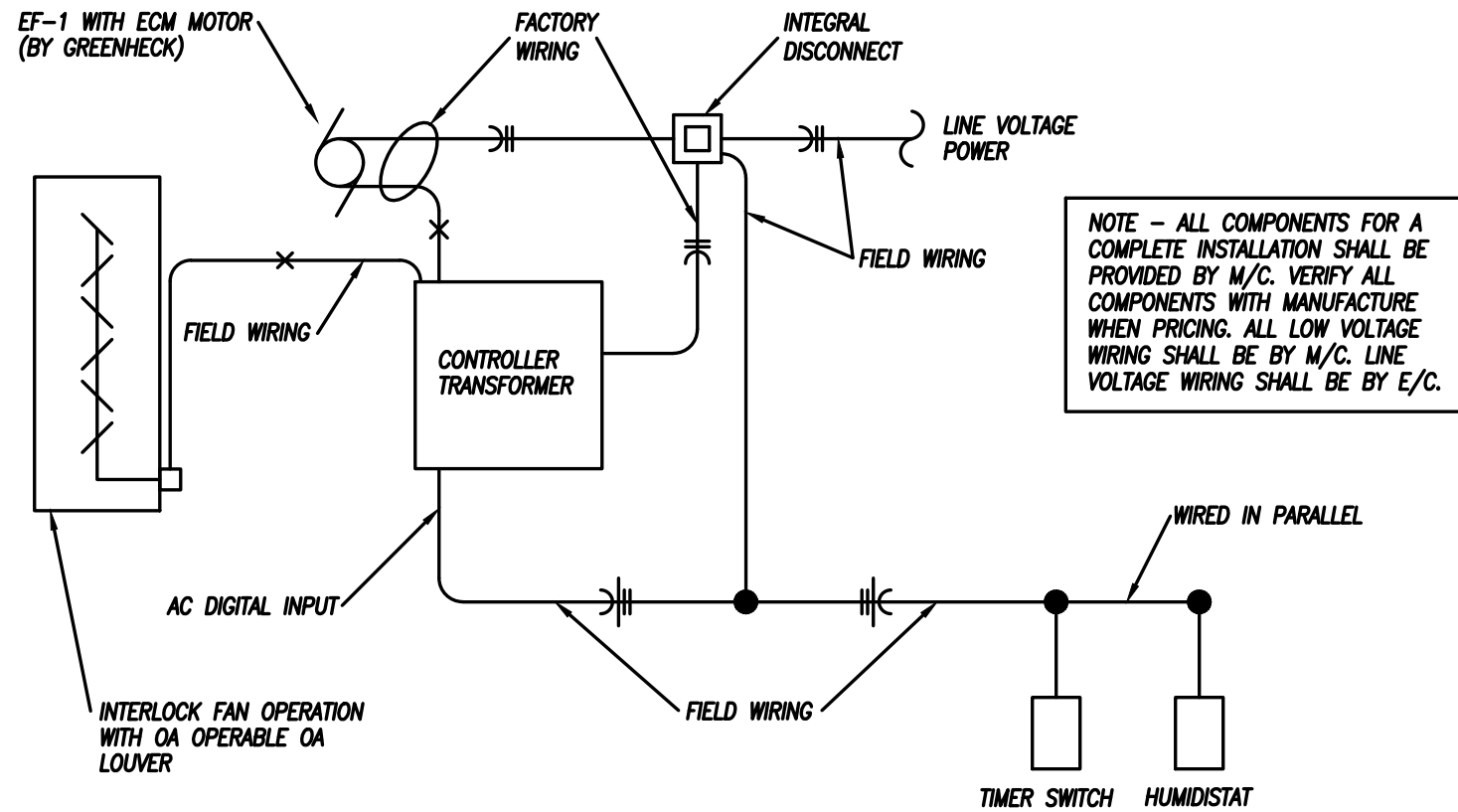
MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES
NOT TO SCALE

SINGLE-SECTION PANELBOARD SCHEDULE														
PANEL DESIGNATION: P1						CIRCUIT #	MAIN LUG AMPS: 125 MAIN BREAKER: 100 VOLTAGE: 240/120 PHASE/WIRE: 1Ø, 3W							
MOUNTING: SURFACE LOCATION: SEE PLAN														
DESCRIPTION	PHASE		C/B		CIRCUIT #		C/B		PHASE		DESCRIPTION			
	A	B	TRIP	POLE	POLE	TRIP	A	B						
RECP	400		20	1	1	2	1	20	400		EXTERIOR LTG			
RECP		600	20	1	3	4	1	20		700	LTG			
RECP	400		20	1	5	6	1	20	-		SPARE			
RECP		500	20	1	7	8	1	20		500	EF-1			
RECP	600		20	1	9	10	1	20	500		UH-1			
RECP		600	20	1	11	12	1	20		800	WASHER			
RECP	1000		20	1	13	14	2	30	2250		DRYER			
OVERHEAD DOOR		1000	20	1	15	16	-	-		2250	-			
OVERHEAD DOOR	1000		20	1	17	18	1	20	-		SPARE			
ELECTRICAL REEL		600	20	1	19	20	1	20		-	SPARE			
ELECTRICAL REEL	600		20	1	21	22	1	20	500		GEN HEATER			
SPARE		-	20	1	23	24	1	20		500	GEN HEATER			
SPARE	-		20	1	25	26	1	20	500		GEN BATTERY CHARGER			
SPARE	-	-	20	1	27	28	2	60		3360	AIR COMPRESSOR			
SPARE			20	1	29	30	-	-		3360	-			
TOTALS		4000	3300						7510	8110	TOTALS			

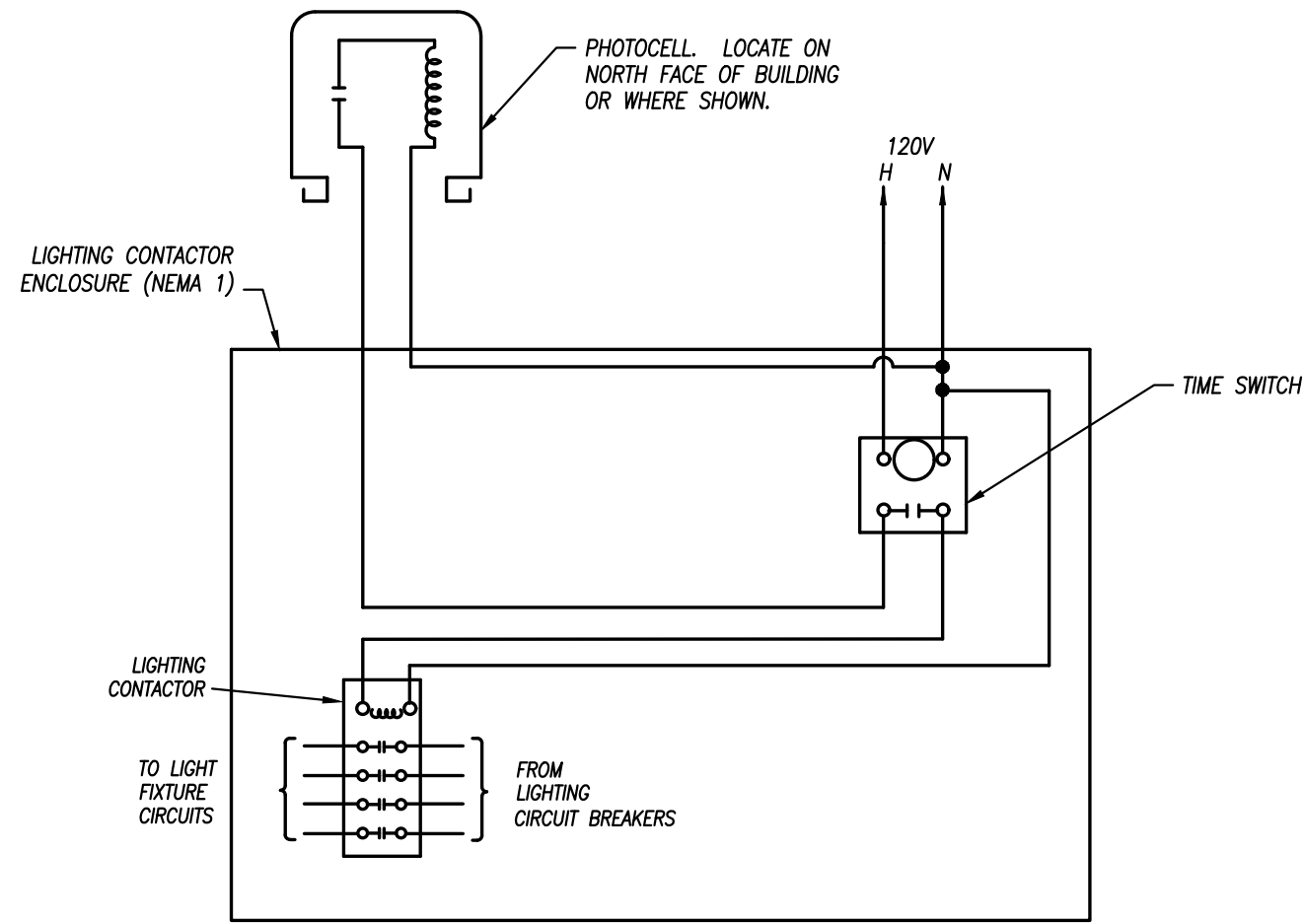
PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	1,100	1.25	1,375
RECEPTACLES	12,600	1ØKVA + 50% REST	11,300
MOTORS	0	1.25 x LARGEST + SUM OF REST	0
AIR CONDITIONING	0	0.00	0
SPACE HEATING	500	1.00	500
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	8,720	1.00	8,720
MISC. LOADS 1	0	1.00	0
MISC. LOADS 2	0	1.00	0
SIZING LOAD:			21,895
SIZING LOAD (AMPS):			91

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	11,510	95.9
B	11,410	95.1
TOTALS	22,920	95.5

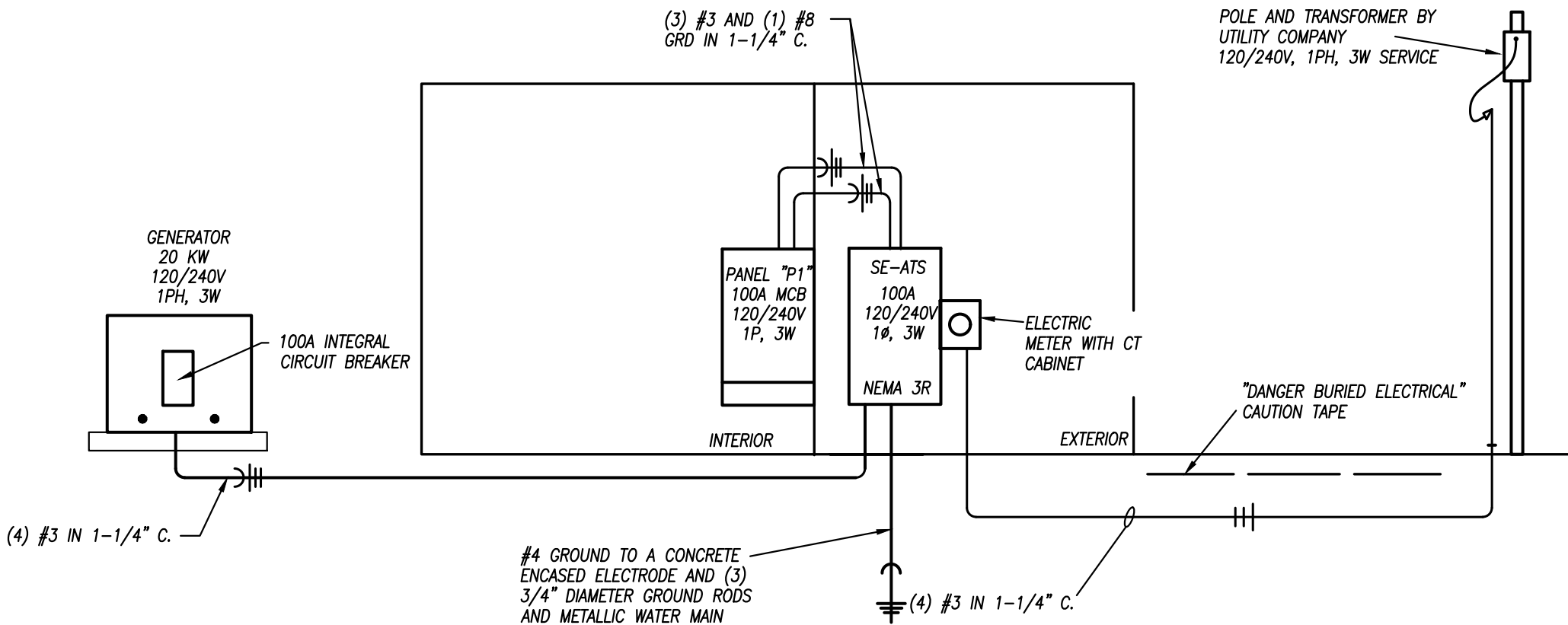
- REMARKS:
- 1.
 - 2.
 - 3.
 - 4.
 - 5.



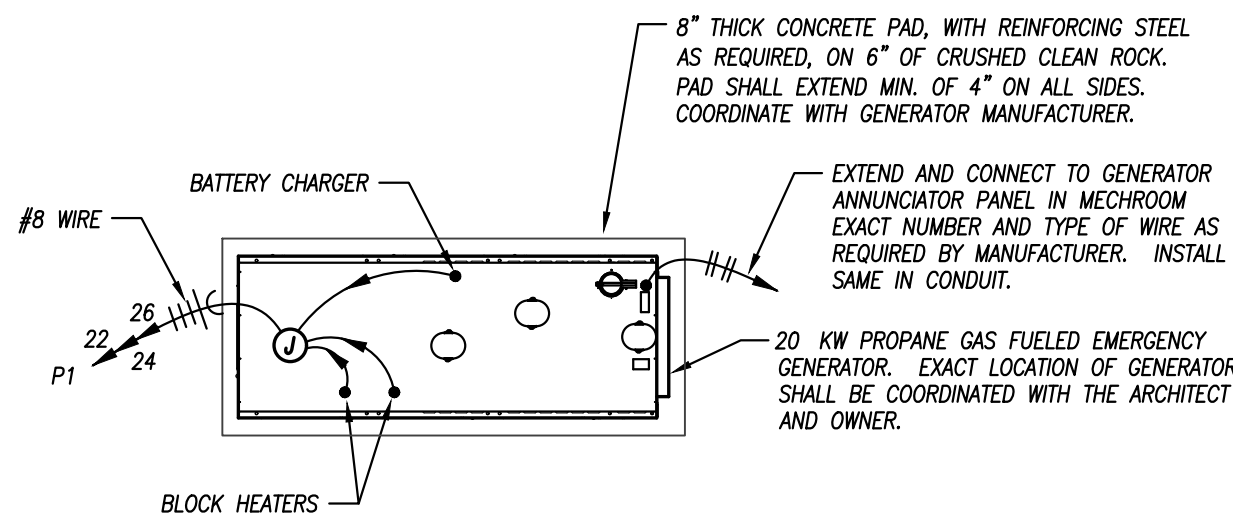
EF-1 CONTROL SCHEMATIC
NO SCALE



LIGHTING CONTROL
NOT TO SCALE



ELECTRICAL RISER DIAGRAM
NO SCALE



ENLARGED GENERATOR PLAN
NOT TO SCALE

GENERATOR SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL NUMBER	STANDBY KW	VOLTAGE FREQUENCY, HZ	FUEL	NOTES
GEN	CUMMINS	C20 N6	20 KW	120/240, 1PH, 60HZ	PROPANE	1,2,3,4,5
NOTES LEGEND 1 - CONTACT NATHANIEL EBBING FOR PRICING (816-414-8284) 2 - PROVIDE WITH HOUSE KEEPING PAD. VERIFY DIMENSIONS WITH SUPPLIER. 3 - PROVIDE WITH SERVICE ENTRANCE RATED ATS CUMMINS CXT100 4 - PROVIDE WEATHER PROTECTIVE ENCLOSURE 5 - AIR CONDITIONING LOADS SHALL BE ON THE SECOND STEP						

Anderson Knight Architects
2505 Anderson Ave., Suite 201
Manhattan, KS 66502
Phone 785-539-0806

February 21, 2023

ADDENDUM NO. 2

NOTICE TO ALL CONTRACTORS furnishing all labor and materials necessary and required for:

RILEY COUNTY FIRE DISTRICT #1
UNIVERSITY PARK STATION 110 AND ASHLAND BOTTOMS STATION 102

ARCHITECT'S PROJECT NO.: 21022

It is intended that all work affected by the following provisions conform to the original Project Manual and Drawings for **Riley County Fire District #1, University Park Station 110 and Ashland Bottoms Station 102**. This addendum shall be recognized by all concerned as an incorporated part of the Contract Documents. Before executing the contract, all contractors shall assure themselves that all changes and interpretations covered by the contents herein are thoroughly understood and that all addenda have been fully accounted for in the Contract Price.

REVISIONS:

Item 1: DOCUMENT 00410 BID FORM

See attached revised Bid Form which changes the base bid to be Ashland Station 102 only with University Park Station 110 as Alternate No. 1. Addendum 1 Item 2 will still apply to University Park Station 110.

Item 2: DOCUMENT 00520 AGREEMENT FORM

See attached for updated "CONTRACTUAL PROVISIONS ATTACHMENT" which replaces "ATTACHMENT C".

Attachment: Riley County Fire District 1 Addendum No. 2 (13187 : Request permission to solicit bids for fire station construction)

Attachment to "Contract" Between Riley County Fire District #1 (hereinafter "District"), and
 _____ (hereinafter "Contractor").

CONTRACTUAL PROVISIONS ATTACHMENT

The undersigned parties agree that the following provisions are hereby incorporated into the contract to which it is attached and made a part thereof, said contract being dated _____.

1. **TERMS HEREIN CONTROLLING PROVISIONS.** It is expressly agreed that the terms of each and every provision in this attachment shall prevail and control over the terms of any other conflicting provision in the contract and any other document relating to and a part of the contract in which this attachment is incorporated. All terms hereof survive termination of the contract.
2. **AGREEMENT WITH KANSAS LAW.** It is agreed by and between the undersigned that all disputes and matters whatsoever arising under, in connection with or incident to the contract shall be litigated, if at all, in and before a state Court located in the State of Kansas, District of Riley County, or if in Federal Court, at a Federal Court located in Topeka, Kansas, to the exclusion of the Courts of any other states or country. All contractual promises shall be subject to, governed by, and construed according to the laws of the State of Kansas, without reference to its conflict of laws principles. Both parties submit to venue and jurisdiction in these courts. In the event an action or claim arises outside of the exclusive jurisdiction specified herein which names District as a party, Contractor agrees to initiate, consent to and/or cooperate with any and all efforts to remove the matter to the exclusive jurisdiction named herein and otherwise to take any and all reasonable actions to achieve District's objectives of this provision.
3. **COMPLIANCE WITH APPLICABLE LAWS, SERVICE STANDARDS AND REQUIRED PROCEDURES.**
 - 3.1 **Service Standards and Procedures.** Contractor shall perform the services set forth in the Contract in compliance with applicable standards and procedures specified in the Contract.
 - 3.2 **Compliance With Law.** Contractor shall comply with all applicable local, state and federal laws and regulations, in carrying out the Contract, regardless of whether those legal requirements are specifically referenced in the Contract.
4. **CASH BASIS AND BUDGET LAWS.** The right of the District to enter into the Contract is subject to the provisions of the Cash Basis Law (K.S.A. 10-1112 and 10-1113), the Budget Law (K.S.A. 79-2935), and other laws of the State of Kansas. The Contract shall be construed and interpreted so as to ensure that the District shall at all times stay in conformity with such laws, and as a condition of the Contract the District reserves the right to unilaterally terminate the Contract at any time if, in the opinion of its legal counsel, the Contract may be deemed to violate the terms of such laws. Any Contract for a term of more than one year shall be interpreted by the parties to provide District the sole option to renew that Contract before the end of each one year term.
5. **TERMINATION DUE TO LACK OF FUNDING APPROPRIATION.** If, in the judgment of the Riley District Commissioners, after consultation with its Budget and Finance Officer or other District officials, sufficient funds are not appropriated to continue the function performed in

the contract and for the payment of the charges hereunder, District may terminate the contract at the end of its current fiscal year. Termination shall be effective 30 days after District mails written notice to Contractor. In the event of such termination, District agrees to give written notice of termination to contractor. The termination of the contract pursuant to this paragraph shall not cause any penalty to be charged to the District or the Contractor.

6. **ANTI-DISCRIMINATION CLAUSE.** In carrying out the Contract, Contractor shall comply with K.S.A. 44-1001 *et seq.*
 - 6.1 Contractor shall observe the provisions of the Kansas act against discrimination and the Kansas age discrimination in employment act and shall not discriminate against any person in the performance of work under the Contract because of race, religion, color, sex, disability, national origin, ancestry, or age.
 - 6.2 In all solicitations or advertisements for employees, Contractor shall include the phrase "equal opportunity employer" or a similar phrase to be approved by the Kansas Human Rights Commission.
 - 6.3 If Contractor fails to comply with the provisions of K.S.A. 44-1031, requiring reports to be submitted to the Kansas Human Rights Commission when requested by that Commission, Contractor shall be deemed to have breached the Contract and it may be canceled, terminated or suspended, in whole or in part, by District.
 - 6.4 If Contractor is found guilty of a violation of the Kansas act against discrimination under a decision or order of the Kansas Human Rights Commission which has become final, Contractor shall be deemed to have breached the Contract and it may be canceled, terminated or suspended, in whole or in part by District.
 - 6.5 Contractor shall include the provisions of paragraphs 6.1 through 6.4 inclusively of this section in every subcontract or purchase order so that such provisions will be binding upon such subcontractor of Contractor.
 - 6.6 Parties to the contract understand that this paragraph number 6 is not applicable if Contractor employs fewer than four employees or if Contractor's contracts with the District cumulatively total \$5,000 or less during the District's fiscal year.
7. **ACCEPTANCE OF CONTRACT.** The contract shall not be considered accepted, approved or otherwise effective until the required approvals and certifications have been given and this Contractual Provisions Attachment is signed by the Board of Riley County Kansas Commissioners.
8. **ARBITRATION, DAMAGES, WARRANTIES.** Notwithstanding any language to the contrary, no interpretation shall be allowed to find the District has agreed to binding arbitration, or the payment of damages or penalties upon the occurrence of a contingency. Further, the District does not agree to pay attorney fees and late payment charges; and no provisions will be given effect that attempt to exclude, modify, disclaim or otherwise attempt to limit implied warranties of merchantability and fitness for a particular purpose.

9. **REPRESENTATIVE'S AUTHORITY TO CONTRACT/REQUIRED DOCUMENTATION.** By signing the Contract, the representative of Contractor thereby represents that such person is duly authorized by Contractor to execute the document on behalf of Contractor and Contractor agrees to be bound by the provisions thereof. Contractor shall furnish evidence of authority to transact business in Kansas, in the form of a certificate signed by the Kansas Secretary of State.
10. **RESPONSIBILITY FOR TAXES.** The District shall not be responsible for, nor indemnify Contractor for, any federal, state or local taxes that may be imposed or levied upon the subject matter of the contract.
11. **NO INSURANCE PROVIDED BY DISTRICT.** The District shall not be required to purchase, any insurance against loss or damage to any personal property to which the contract relates, nor shall the contract require the District to establish a "self-insurance" fund to protect against any such loss or damage. Subject to any applicable provisions of the Kansas Tort Claims Act (K.S.A. 75-6101 *et seq.*), Contractor shall bear the risk of any loss or damage to any personal property to which Contractor holds title.
12. **INSURANCE PROVIDED BY CONTRACTOR.** Contractor shall maintain in full force and effect during the term of the Contract the insurance policies and coverages listed in the Contract, which policies shall be issued by a responsible carrier selected by Contractor. Contractor shall deliver to District, upon reasonable request, Certificates of Insurance evidencing such coverages. Minimum limits for coverage are as follows:
- General Liability Insurance \$500,000 per occurrence
 - Workers Compensation Per State Statutes
 - Employers Liability \$100,000 Bodily Injury By Accident
 - \$500,000 Bodily Injury By Disease
 - \$100,000 Bodily Injury by Disease
- each employee
 - Business Auto (Owned & Non-Owned) \$500,000 Combined single limit per occurrence
 - Property/Contents Contractor agrees to maintain fire and extended coverage on all property, real or personal, belonging to Contractor.

The District and the Board of Riley County Commissioners shall be named as additional insureds with respect to the General Liability and Business Auto insurance coverages. All of the foregoing coverages shall be issued by a company or companies licensed to do business in the state of Kansas.

13. **TERM AND TERMINATION.**

- 13.1 **Term.** This Contractual Provisions Attachment shall be effective as of its date of execution by the parties and shall remain in effect during the term of the Contract, or until terminated either for convenience, breach or default, as set out herein. Thirty (30) days written notice to the other party is required.

- 13.2 **Termination for Cause.** If Contractor shall fail to fulfill in a timely and proper manner its obligations under the Contract, or if Contractor shall violate any of the terms, covenants, conditions, or stipulations of the Contract, District shall thereupon have the right to terminate the Contract by promptly giving written notice to contractor of such termination and specifying the reasons for the termination and the effective date thereof. A breach shall include, but not be limited to, failure to comply with any or all items contained in the Contract and any appendices, exhibits or amendments thereto, if any.

Notwithstanding the above, Contractor shall not be relieved of liability to District by virtue of any breach of the Contract by Contractor.

- 13.3 **Termination for Convenience.** District may terminate the Contract in whole or in part, upon thirty (30) days written notice to Contractor, stating the effective date of the termination for convenience.

- 13.4 **Payment Calculation Upon Termination.** In the event of termination under the Contract by either party, any amount owed Contractor will be calculated based solely upon payment for fair value of acceptable services provided by Contractor to the point of termination, which fair value is not the subject of a good faith dispute.

14. **INDEPENDENT CONTRACTOR RELATIONSHIP.** It is agreed that the legal relationship between Contractor and District is of a contractual nature. Both parties assert and believe that Contractor is acting as an independent contractor in providing the services and performing the duties required by District hereunder. Contractor is at all times acting as an independent contractor and not as an officer, agent, or employee of District. As an independent contractor, Contractor, and employees of Contractor, will not be within the protection or coverage of District's worker's compensation insurance, nor shall Contractor, and employees of Contractor, be entitled to any current or future benefits provided to employees of District. Further, District shall not be responsible for withholding of social security, federal, and/or state income tax, or unemployment compensation from payments made by District to Contractor. Contractor shall supply all labor, equipment, supplies and materials necessary to complete the required services, at Contractor's sole expense.

15. **PERSONNEL.**

- 15.1 **Qualified Personnel.** Contractor represents that it has, or shall secure at its own expense, all personnel required in performing the services under the Contract. Such personnel shall not be employees of or have any other contractual relationship with District. All personnel engaged in the work shall be fully qualified according to the laws of the State of Kansas and the provisions of this Contract.
- 15.2 **Minimum Wages.** Contractor will comply with the minimum wage and maximum hours provisions of the Federal Fair Labor Standards Act.
- 15.3 **Employee Conflict of Interest.** Contractor shall establish safeguards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have

family, business, or other ties.

16. **PROHIBITION OF CONFLICTS OF INTEREST.**

16.1 **Interest of Public Officials and Others.** No officer or employee of Riley District, no member of its governing body, and no other public official who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of the Contract shall participate in any decision relating to the Contract which affects such person's personal interest or the interest of any corporation, partnership, or association in which such person is directly or indirectly interested; nor shall any officer or employee of Riley District or any member of its governing body or other public official have any interest, direct or indirect, in the Contract or the proceeds thereof.

A. **Interest of Contractor.** Contractor covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under the Contract.

B. **Notice to Bidders.** Requests for proposal or invitations for bid issued by Contractor to implement the Contract will provide notice to prospective bidders that Riley District's conflict of interest provision is applicable and that prospective bidders who develop or draft specifications, requirements, statements of work and/or RFPs for a proposed procurement shall be excluded from bidding or submitting a proposal to compete for the award of such procurement.

17. **ASSIGNMENT.** Neither the Contract nor any rights or obligations hereunder shall be assigned or otherwise transferred by either party without the prior written consent of the other.

18. **SUBCONTRACTING.** None of the work or services covered by the Contract shall be subcontracted without the prior written approval of District. All approved subcontracts must conform to all terms set forth in the Contract and the Contractual Provisions Attachment.

19. **RECORDS, REPORTS AND INSPECTION.**

19.1 **Documentation of Costs.** All costs incurred by Contractor for which Contractor purports to be entitled to reimbursement under the express terms of the Contract shall be supported by properly executed payrolls, time records, invoices, contracts or vouchers, or other official documentation evidencing in proper detail the nature and propriety of charges. All checks, payrolls, invoices, contracts, vouchers, orders or other accounting documents pertaining in whole or in part to the Contract shall be clearly identified and readily accessible to both parties to the Contract.

A. **Maintenance of Records.** Except as otherwise authorized by District, Contractor shall retain such documentation for a period of three (3) years after receipt of any applicable final expenditure report under the Contract, unless action, including but not limited to litigation or audit resolution proceedings, necessitate maintenance of records beyond this three (3) year period.

B. Contractor's Purchasing Procedure. Contractor certifies that it does not practice any form of discrimination based on race, ethnic origin, gender or religion or disability in its purchasing procedures. Contractor agrees to make available a written description of its purchasing procedures if requested by District.

20. **METHOD OF BILLING AND PAYMENT.**

20.1 **Billing Procedures.** Contractor agrees that billings and payments under the Contract shall be processed in accordance with established budgeting, purchasing and accounting procedures of Riley District, Kansas. Subject to the maximum amount of compensation prescribed herein, payment shall be made after receipt of billing, and the amount of payment shall not exceed the maximum amount allowed by the Contract.

A. Support Documentation. Billing shall be supported with documentation required by District including, but not necessarily limited to, that documentation described in paragraph 20.1, above.

B. Reimbursement Restrictions. Payments shall be made to Contractor only for items and services provided to support the Contract purpose when such items and services are specifically authorized by the Contract. District reserves the right to disallow reimbursement for any item or service billed by Contractor if District believes that such item or service was not provided to support the Contract purpose, or was not authorized by the Contract.

C. Pre-disbursement Requirements. Contractor must provide to District the documentation required pursuant to the Contract prior to any disbursements being made by District to Contractor.

D. Mailing Address. Payments shall be mailed to Contractor's address as set forth herein.

21. **LICENSES AND PERMITS.** Contractor shall maintain all licenses, permits, certifications, bonds, and insurance required by federal, state or local authority for carrying out the Contract. Contractor shall notify District immediately if any required license, permit, bond or insurance is canceled, suspended or is otherwise ineffective. Such cancellation, suspension, or other ineffectiveness may form the basis for immediate revocation or cancellation of the Contract by District, in District's sole discretion.

22. **PUBLIC DOCUMENTS.** It is agreed that the Contract, and all subsequent agreed amendments or addenda thereto are public documents which will be filed with the Riley County Clerk, and will be open to public inspection.

23. **MERGER/SALE/TRANSFER OF CONTRACTOR ASSETS.** Contractor will notify District in writing at least thirty (30) calendar days in advance of Contractor's merger with any other business entity, or of any sale or other transfer of Contractor's assets to any other business entity. In the event of any such merger, sale or other transfer of Contractor assets, Contractor will reasonably cooperate with District in assuring that provision of all products and services under this Contract are not disrupted before, during and after such merger, sale or other transfer of Contractor assets. After such merger, sale or other transfer of Contractor assets, Contractor shall reasonably cooperate with District in providing any documents or information necessary to establish any prior

payments made by District to Contractor under this Contract.

Contractor

District

BOARD OF COUNTY COMMISSIONERS
OF RILEY COUNTY, KANSAS, SITTING
AS THE GOVERNING BODY OF RILEY
COUNTY FIRE DISTRICT #1

By: _____
Name:

By: _____
Kathryn Focke, Chairwoman

Date

Date

ATTEST: (seal)

Approved as to Form

Rich Vargo, Riley County Clerk

By: _____
Clancy Holeman
Riley County Counselor

Date: _____

Attachment: Riley County Fire District 1 Addendum No. 2 (13187 : Request permission to solicit bids for fire station construction)

PROJECT MANUAL

RILEY COUNTY FIRE DISTRICT #1

UNIVERSITY PARK STATION 110
ASHLAND BOTTOMS STATION 102

Architects Project No. 21-022

Issued: February 10, 2023

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

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21022 Riley County Fire District #1
 SECTION 00210 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

INVITATION TO BID

PROJECT: Riley County Fire District #1
University Park Station 110 & Ashland Bottoms Station 102

ARCHITECT: Anderson Knight Architects
2505 Anderson Ave, Ste 201
Manhattan, Kansas 66502

ARCHITECT'S PROJECT NO.: 21-022

ISSUE DATE: February 10, 2023

PROJECT SCOPE:

- a. The project consists of two new 40' x 50' pre-engineered metal buildings with two overhead doors and one walk door.

BID RECEIVING:

- a. General Contractors are invited to submit a lump sum bid, on the Bid Form provided, for a General Contract, under seal to the Owner, at the Riley County Clerk's Office, 110 Courthouse Plaza, Manhattan, KS, before 5:00 pm local time on the 8th day of March, 2023 for the above project. Bids will be publicly opened on March 9th, 2023 at 9:00am at the Owner's County Commissioners Room, 115 North 4th Street, Manhattan, KS, and read aloud.
- b. Bids will be received for the work to include General Construction.

CONTRACT DOCUMENTS:

- a. Bidding Documents may be obtained by emailing the office of the Architect at info@anderson-knight.com, or calling 785-539-0806. A digital copy will be emailed to the contractor.

BONDS:

- a. Bonds will be required in accordance with the "Instructions to Bidders".

PRE-BID CONFERENCE:

- a. There will be a pre-bid conference on Tuesday, February 28th, 2023 at 3:00pm at the Riley County Commission Room, 115 North 4th Street, Manhattan, KS. Attendance is not required in order to submit a bid. Accommodations for attendance via "zoom" conference can be made by contacting the Architect no later than 3:00pm on Monday, February 27th, 2023.

**DOCUMENT 00200
INSTRUCTIONS TO BIDDERS**

PROJECT: Riley County Fire District #1
University Park Station 110 & Ashland Bottoms Station 102

ARCHITECT: Anderson Knight Architects
2505 Anderson Ave, Ste 201
Manhattan, KS 66502

ARCHITECT'S PROJECT NO.: 21-022

ISSUE DATE: February 10, 2023

B-1 DEFINITIONS:

- a. Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201-2017 Edition, are applicable to these Instructions to Bidders.
- b. Bidding documents include the Invitation to Bid, Instructions to Bidders, Bid Form and proposed Contract Documents including any Addenda issues prior to receipt of bids.
- c. Addenda are written or graphic instruments issued prior to the execution of the Contract including the Drawings and Project Manual by additions, deletions, clarifications, or corrections. Addenda will become part of the Contract Documents when the Construction Contract is executed.

B-2 EXAMINATION OF BIDDING DOCUMENTS:

- a. Each bidder shall examine the bidding documents carefully and, not later than seven (7) days prior to the date for receipt of bids, shall make written request to the Architect for interpretation or correction or any ambiguity, inconsistency or error therein which he may discover. Any interpretation or correction by Addendum shall be issued to all bidders in writing, and only a written interpretation or correction shall be binding.

B-3 ADDENDA:

- a. Prior to the receipt of bids, Addenda will be emailed to each prime contract bidder recorded by the Architect as having received the bidding documents. Addenda issued after receipt of bids will be emailed only to the selected bidder.
- b. Bidders shall acknowledge receipt of addenda on the Bid Form in the space provided for same.

B-4 BID PREPARATION:

- a. Bids shall be made upon the BID FORM thereof as bound in this Project Manual. Fill in all blanks on the BID FORM clearly with ink. Erasures or other changes in a bid must be explained or noted over the signature of the bidder. Signature shall be in longhand by a principal duly authorized to sign contracts; the signature accompanied by the corporate seal impression if bid is by a corporation. Bids shall contain neither alterations nor recapitulation of the work.
- b. Bids shall be prepared and submitted in accordance with these Instructions to Bidders.
- c. Enclose the BID FORM, in an opaque envelope bearing the legend:

PROJECT: Riley County Fire District #1
University Park Station 110 & Ashland Bottoms Station 102

ARCHITECT'S PROJECT NO.: 21-022

B-5 ALTERNATE BIDS:

- a. Each bidder shall bid on alternates included in the Bid Form, except that should they desire not to bid an alternate they may insert the words "no bid" in the space provided for prices for such alternate. However, when a bidder writes "no bid" for one or more alternates, they thereby waives any claim to the contract award if that alternate (or those alternates) becomes the basis for determining the low bid and/or the contract award. If an alternate price called for involves no change in price, bidder shall so indicate by writing the words "no change" in the space provided.

B-6 BID SECURITIES:

- a. Security, consisting of a certified check or cashier's check on a solvent bank, shall be enclosed with each bid in the amount of at least 5% of the Base Bid.
- b. Bid Security shall be made payable, without condition to Riley County Treasurer, including additive alternatives as a guarantee that the bidder, if awarded the contract, will promptly execute the formal contract in accordance with the Bid and Contract Documents. Bid Securities for the three (3) lowest bidders will be retained until the contract is awarded or other disposition is made thereof. Bid Security of all other bidders will be returned promptly after the canvas of bids.

B-7 COMPLETION TIME:

- a. Each bidder acknowledges that they will substantially complete the work within the number of calendar days as stated on the bid form from receipt of Notice to Proceed or be subject to liquidated damages as defined by this Project Manual. The Owner realizes that there may be unusually long lead times for some items incorporated into the Project so the intent is for the Bidder to stipulate the substantial completion date taking into consideration the anticipated lead times. The contractor may proceed with the work at any time from the notice to proceed in order to accomplish the work on time. i.e the site work and concrete work may be accomplished at any time as long as it is ready upon delivery of long lead items.

B-8 BIDDER'S REPRESENTATION:

- a. Each bidder, by making their bid, represents that:
 - 1. They have read and understands the bidding documents and their Bid is made in accordance therewith.
 - 2. They have visited the site and has familiarized themselves with the local conditions under which the work is to be performed.
 - 3. The bid is based upon the materials, systems and equipment described in the bidding documents without exception.

B-9 BID RECEIVING:

- a. All copies of the bid, the bid security, and any other documents required to be submitted with the bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the bids and shall be identified with the project name, the bidder's name and address, and the work for which the bid is submitted. If the bid is sent by mail the sealed envelope shall be enclosed in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof.
- b. Bids shall be deposited at the designated location prior to the time and date for receipt of bids indicated in the advertisement or Invitation to Bid, or any extension thereof made by Addendum. Bids received after the time and date for receipt of bids will be returned unopened.
- c. Bidder shall assume full responsibility for timely delivery at location designated for receipt of bids.
- d. Oral, telephonic, or emailed bids are invalid and will not receive consideration.

B-10 MODIFICATION OR WITHDRAWAL OF BID:

- a. A bid may not be modified, withdrawn or canceled by the bidder during the stipulated time period following the time and date designated for the receipt of bids, and bidder so agrees in submitting their bid.
- b. Prior to the time and date designated for receipt of bids, bids submitted early may be modified or withdrawn only by notice to the party receiving bids at the place and prior to the time designated for receipt of bids.
- c. Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.
- d. Bid security, if any is required, shall be in an amount sufficient for the Bid as modified or resubmitted.

B-11 SUBMISSION OF POST-BID INFORMATION:

- a. Bidders to whom award of a contract is under consideration shall submit to the Architect, upon their request, a properly executed Contractor's Qualification Statement, AIA Document A305, unless such a statement has been previously required and submitted as a prerequisite to the issuance of Bidding Documents. The Architect reserves the right to interview any or all bidders before the contract is awarded.
- b. Unless waived by the Architect, the apparent low bidder shall, within two (2) hours of bid opening, submit the following information to the Architect:
 - 1. A designation of the Work to be performed by the bidder with their own forces.
 - 2. The proprietary names of subcontractors and the suppliers of principal items of systems of material and equipment proposed for the work.
- c. The bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the proposed subcontractors and to furnish and perform the work described in the sections of the Project Manual pertaining to such proposed subcontractor's respective trades.
- d. Prior to the award of the contract, the Architect will notify the bidder in writing if either the Owner or the Architect, after due investigation, has reasonable and substantial objection to any person or organization on such list. If the Owner or Architect has a reasonable or substantial objection to any person or organization, the bidder may, at their option, (1) withdraw the bid, or (2) submit an acceptable substitute subcontractor with an increase in the bid price to cover the difference in cost occasioned by such substitution. The Owner may, at their discretion, accept the increased bid price or may disqualify the bidder. In the event of either withdrawal or disqualification under this subparagraph, bid security will not be forfeited, notwithstanding anything to the contrary in paragraph above written.
- e. Subcontractors and other persons and organizations proposed by the bidder and accepted by the Owner and Architect must be used on the work for which they were proposed and accepted and shall not be changed except with written approval of the Owner and Architect.

B-12 REJECTION OF BIDS:

- a. The Owner shall have the right to reject any or all bids and in particular to reject a bid not accompanied by any required bid security or data required by the Bidding Documents or a bid in any way incomplete or irregular.

B-13 AWARD OF CONTRACT:

- a. The Owner shall have the right to waive any informality or irregularity in any bid received.
- b. It is the intent of the Owner to award a contract to the lowest responsible bidder provided the bid has been submitted in accordance with the requirements of the Bidding Documents, is judged to be reasonable, and does not exceed the funds available.

B-14 PRE-BID CONFERENCE:

- a. A pre-bid conference will be held on Tuesday February 28, 2023 at 3:00pm at the Riley County Commission Room, 115 North 4th Street, Manhattan, KS. Attendance is not required in order to submit a bid. Accommodations for attendance via “zoom” conference can be made by contacting the Architect no later than 3:00pm on Monday, February 27, 2023.

B-15 LIQUIDATED DAMAGES:

- a. The Owner will suffer financial damage if the project is not substantially completed and available for use on the date noted. Portions of the work may be deemed substantially complete before completion of the entire project and acceptance of a portion of the work will not relieve the contractor from his responsibility to complete the remaining work. In the event that this deadline is not met, as certified by the Architect, the contractor (and his surety) shall be liable for and shall pay to the Owner the sum(s) hereinafter stipulated as fixed, agreed and liquidated damages for each calendar day until the work is substantially completed. One Hundred Dollars (\$100.00).
- b. All time limits stated in the contract documents are of the essence of the contract.
- c. The Contractor may be granted an extension of time and/or relief from liquidated damages because of changes ordered in the work or because of act of God, fire, flood, hurricane, wind event, storm, weather disturbance, earthquake, pandemic, disease, epidemic, or other viral or bacterial outbreak, government-ordered shutdown, quarantine or shelter-in-place order, an act or omission of a third party, strike, war, riot, terrorism or threat of terrorism, civil unrest, or any other event or circumstance not within the reasonable control or any causes beyond the Contractor's control which constitute a justifiable delay. The Owner will extend the time and/or grant relief from liquidated damages subject to the following provisions:
1. Claims for extensions of time and/or relief from liquidated damages, except for weather related claims, must be made in writing not later than ten (10) calendar days after the beginning of the delay. Claims for an extension of time due to unusual inclement weather shall be made in writing not later than the tenth day of the month following the month in which the delay occurred.
 2. Claims for extension of time or relief from liquidated damages shall be stated in numbers of whole or half calendar days. The actual dates on which the delay(s) occurred must be stated. In unusual inclement weather, such extension of time shall be granted only because such unusual inclement weather prevented the execution of major items of work on normal working days.
 3. Unusual inclement weather as used herein means unusual severe weather which is beyond the normal weather recorded and expected for the locality and/or the season or seasons of the year.

P R E C I P I T A T I O N**JANUARY:**

1.61" AVERAGE, 6 AVG. NUMBER OF DAYS .01" OR MORE.

FEBRUARY:

1.94" AVERAGE, 7 AVG. NUMBER OF DAYS .01" OR MORE.

MARCH:

3.59" AVERAGE, 9 AVG. NUMBER OF DAYS .01" OR MORE.

APRIL:

3.79" AVERAGE, 9 AVG. NUMBER OF DAYS .01" OR MORE.

MAY:

5.38" AVERAGE, 11 AVG. NUMBER OF DAYS .01" OR MORE.

JUNE:

5.51" AVERAGE, 10 AVG. NUMBER OF DAYS .01" OR MORE.

JULY:

3.06" AVERAGE, 7 AVG. NUMBER OF DAYS .01" OR MORE.

AUGUST:

3.81" AVERAGE, 8 AVG. NUMBER OF DAYS .01" OR MORE.

SEPTEMBER:

4.78" AVERAGE, 8 AVG. NUMBER OF DAYS .01" OR MORE.

OCTOBER:

3.99" AVERAGE, 7 AVG. NUMBER OF DAYS .01" OR MORE.

NOVEMBER:

3.43" AVERAGE, 7 AVG. NUMBER OF DAYS .01" OR MORE.

DECEMBER:

2.16" AVERAGE, 7 AVG. NUMBER OF DAYS .01" OR MORE.

For the purpose of this contract, "unusual inclement weather" will be interpreted as those days in excess of the number of days shown under PRECIPITATION on which rainfall exceeds 0.01 inch.

4. Any claim for extension of time for strikes or lockouts shall be supported by a citation of facts concerning the strike, including but not limited to, the dates, the craft concerned, the reason for the strike, efforts to resolve the dispute, and efforts to minimize the impact of the strike on progress.
5. Any claim for extension of time for delays in transportation or for failures of suppliers shall be supported by a citation of facts demonstrating that the delays are beyond the Contractor's control, including but not limited to, his efforts to overcome such delays.
6. The time extensions for changes in the work will depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction.
The Change Order granting the time extension may provide that the Contract completion date will be extended only for those specific elements so delayed and that the remaining work will not be altered and may further provide for an equitable readjustment of liquidated damages pursuant to the new contract completion dates.

END OF DOCUMENT 00200

**DOCUMENT 00210
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS**

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The following supplements modify, change, delete from, or add to Document 00200, Instructions to Bidders (AIA Document A701-2018). Where any Article, Paragraph, Subparagraph, or Clause is modified, changed, or deleted by this Document, the unaltered provisions of that Article, Paragraph, Subparagraph, or Clause shall remain in effect.

1.02 SUPPLEMENTARY INSTRUCTIONS

- A. **ARTICLE 1 – DEFINITIONS**
1. Delete Paragraph 1.9 in its entirety and substitute the following.
1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment or labor for a portion of the Work, and who meets the requirements set forth in the Bidding Documents.
- B. **ARTICLE 2 – BIDDER'S REPRESENTATIONS**
1. Add the following subparagraph to Paragraph 2.1.
2.1.7 The Bidder will not later request and will not later expect to receive additional payment for Work related to conditions which can be determined by examination of the Site, the Bidding Documents, or the Contract Documents.
- C. **ARTICLE 3 – BIDDING DOCUMENTS**
1. Add the following subparagraph to Paragraph 3.1
3.1.6 Under no circumstances shall the Bidder give the Bidder's copies of the Bidding Documents to another Bidder. Any Bid received from an entity whose name does not appear on the list of Bidders having made deposit for the Bidding Documents with the Architect, will be subject to rejection.
 2. Delete Subparagraph 3.4.3.
 3. Add the following paragraph and subparagraph to Article 3.
3.5 TAXES
3.5.1 In accordance with K.S.A. 1993 Supp. 79-3603b(d), and amendments thereto, certain purchases by the Contractor of tangible personal property and materials incorporated or consumed in the construction of the Work are exempt from certain sales taxes. Refer to Project Manual Document 00800 and Project Manual Section 01290 for additional requirements. The Bidder will be responsible for obtaining the tax exemption for any materials or equipment purchased under this Contract.
- D. **ARTICLE 4 – BIDDING PROCEDURES**
1. Delete Subparagraph 4.1.5 and substitute the following.
4.1.5 All requested Alternates and Unit Prices shall be bid. If no change in the Base Bid is required for Alternates, enter "No Change."
 2. Delete the last sentence of Paragraph 4.2.2 beginning with "The amount of bid security..."
 3. Subparagraph 4.2.4 (c) ...beginning **30** days...
 4. Add the following subparagraph to Paragraph 4.2.
4.2.5 Each Bid shall be accompanied by a Bid Bond, certified check, or cashier's check acceptable to, and payable without condition to Riley County Treasurer, in an amount equal to 5 percent of Bidder's Bid, including additive alternates. Refer to Document 00435 for applicable Bid Bond forms.
 5. Add the following paragraph and subparagraphs to Article 4.
4.4.4 The Owner shall have the right to take such steps as the Owner may deem necessary to determine the ability of the Bidder to perform the Work, and the

Bidder shall furnish to the Owner such additional information which the Owner may request.

E. ARTICLE 5 – CONSIDERATION OF BIDS

1. Add the following subparagraphs to Paragraph 5.3.

5.3.3 In awarding the Contract, the Owner may take into consideration the Bidder's skill, facilities, capacity, experience, responsibility, previous work record, financial standing, the necessity of prompt and efficient completion of Work described in the Bidding Documents, or other factors the Owner considers relevant. Inability of Bidder to meet these conditions may be cause for rejection of the Bid.

5.3.4 In accordance with K.S.A. 75-3740a, and amendments thereto, and to the extent permitted by federal law and regulations, whenever the Owner lets bids for contracts for the erection, construction, alteration, or repair of any public building or structure or any addition thereto or for any public work or improvement, the Contractor domiciled outside the State of Kansas, to be successful, shall submit a Bid the same percent less than the lowest bid submitted by a responsible Kansas contractor to succeed over the bidding contractor domiciled outside Kansas on a like contract let in such contractor's domiciliary state.

.1 Bidders whose domicile is located outside the State of Kansas shall submit with each copy of their Bid, a copy of their domicile state's preferential bidding statutes, if any, and the applicable percent received by in-state bidders from the bidder's domicile state.

5.3.5 Bidder to whom Contract is awarded shall execute the Agreement with the Owner within 10 days after receipt of the Agreement form.

F. ARTICLE 6 – POST-BID INFORMATION

1. Delete Paragraph 6.2 in its entirety.

2. Add the following clause to Subparagraph 6.3.1.

.4 Refer to Section 01330 for additional requirements.

3. Add the following subparagraphs to Paragraph 6.3.

6.3.5 Prior to execution of the Agreement with the Owner, the Contractor shall submit to the Architect and the Owner, the following information for each chemical product to be offered, sold, transferred, handled, or proposed for used in the Work.

.1 Material Safety Data Sheet (MSDS) containing the information and data required by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200.

.2 Product data sheets and product technical specifications.

6.3.6 In accordance with K.S.A. 16-113, if Bidder who is awarded a contract, is a Contractor who is a nonresident individual, partnership, or unincorporated association of the State of Kansas, such Bidder/Contractor shall appoint an agent who is a resident of the county where the Work is to be performed, and who may receive process in any civil action arising for the Work.

.1 The appointment form shall be prepared by the Bidder/Contractor and modeled after the State of Kansas forms issued by the Division of Purchases, and shall be in a form acceptable to the Owner.

.2 The Bidder/Contractor shall execute and file the appointment form with the Clerk of the District Court in the county where the Work is to be performed, with a receipt therefore submitted to the Architect.

G. ARTICLE 7 – PERFORMANCE BOND AND PAYMENT BOND

1. Add the following clause to Subparagraph 7.1.1.

.1 Refer to Document 00610 for additional requirements.

2. Delete the entire first sentence of Subparagraph 7.2.1 and substitute the following.
The Bidder shall deliver the required bonds to the Owner not later than the date of execution of the Contract.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

Not used.

END OF DOCUMENT 00210

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

**DOCUMENT 00410
BID FORM**

TO: Board of County Commissioners of
Riley County, Kansas
110 Courthouse Plaza
Manhattan, Kansas 66502

PROJECT: Riley County Fire District #1
University Park Station 110 and Ashland Bottoms Station 102

FROM: (name) _____
(address) _____
(telephone) _____

The Bidder, having examined Bidding Documents and Contract Documents prepared by Anderson Knight Architects, 2505 Anderson Ave. Suite 201, Manhattan, Kansas 66502, dated February 10, 2023, and having personally inspected the actual location of the Work and the local sources of supply, is confident of quantities and conditions, and understands that in signing this Bid, the right to plead misunderstandings regarding the same is waived.

The Bidder acknowledges receipt of addenda Nos. ____ through ____ inclusive, and has considered the requirements of the Addenda and incorporated these requirements and all cost thereto in the Bid.

The Bidder agrees to furnish all labor, materials, equipment, and services required to do, perform and complete the Work in accordance with the Contract Documents, and to accept full compensation therefore the amount of the Total Bid for the portion of the Work so completed.

The Bidder agrees to accept the provisions of Document 00200 – Instructions to Bidders and Document 00210 – Supplementary Instructions to bidders regarding disposition of Bid Security.

The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of 60 days after the final scheduled time and date for receiving Bids.

The Bidder agrees that the Owner reserves the right to accept or reject any or all Bids, alternates, or Unit Pricing, to reject a Bid not accompanied by the required bid security or by data required by the Bidding Documents, to reject a Bid which is in any way incomplete or irregular, and to waive irregularities in Bids received and minor discrepancies in bidding procedures.

The Bidder agrees to Substantially Complete the Work within a period of _____ (bidder shall state number of days) calendar days from the date of commencement of the work as listed in the notice to proceed, and to pay as liquidated damages the amount specified in Document 00800 for each consecutive calendar day the Work remains substantially incomplete in accordance with the Contract Documents.

The Bidder agrees, if awarded a Contract, to enter into a Contract with the Owner on the terms stated in the Bid, and to execute the agreement within 10 days after receipt of the proposed Agreement Form, and to furnish the required Bonds and Certificates of Insurance prior to or at the time of execution of the Contract.

The Bidder proposed to enter into a Contract to perform the Work for the following sums:

FOR BASE BID, the lump sum of _____
_____ dollars (\$_____).

21022 Riley County Fire District #1
SECTION 00410 – BID FORM

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

FOR ALTERNATES: The following amounts shall modify the Base Bid Sum. Refer to Section 01230.

1. Alternate No. 1 – Provide exterior wainscot panel as indicated in the drawings.:
Add \$_____.

The Bidder agrees the following categories of Work will be performed or provided by subcontractors as listed and coordinated by the Bidder, and further certifies that the subcontractors listed herein meet the qualifications specified in the appropriate Specification Sections. If acceptance or nonacceptance of alternates will affect the designation of a subcontractor, attach a separate subcontractor listing for each Alternate. The required list of subcontractors shall be submitted within 2 hours after the final scheduled time for receipt of Bids.

1. Earthwork Subcontractor:_____
2. Cast-In-Place Concrete:_____
3. Steel Doors and Frames Supplier:_____
4. Overhead door Manufacturer & Installer:_____
5. Door Hardware Supplier:_____
6. Metal Building Manufacturer:_____
7. Electrical Contractor:_____
8. Mechanical Contractor:_____
9. Plumbing Contractor:_____
10. Site Utility Contractor:_____

The Bidder has attached the following required information:

1. Bid security required by Document 00200 – Instructions to Bidders and Document 00210
-- Supplementary Instructions to Bidders, as specified under Document 00435

Respectfully submitted,

IF AN INDIVIDUAL:

name of individual

firm name, if any

address for communications

Signature

IF A PARTNERSHIP:

name of partnership

partner

signature

residence address

list names and residence address of all partners

21022 Riley County Fire District #1
SECTION 00410 – BID FORM

IF A CORPORATION:

name of corporation

title of officer

president or officer signature

address for communications

Date _____

1. Incorporated under the laws of the state of

2. Licensed to do business in the State of Kansas
Yes _____ No _____ (check one)

(Attest)

(seal) _____ Secretary

END OF DOCUMENT

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

**DOCUMENT 00435
BID SECURITY FORMS**

PART 1 GENERAL

1.01 APPLICABLE DOCUMENTS

- A. The American Institute of Architects Document A310 "Bid Bond", 2010 Edition.
- B. Samples of the Bid Security Form may be obtained from American Institute of Architects, <https://www.aiacontracts.org/>
- C. A properly executed form is required to be submitted with each copy of the Bid.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF DOCUMENT

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

**DOCUMENT 00520
AGREEMENT FORM**

PART 1 – GENERAL

1.01 APPLICABLE FORMS

- A. American Institute of Architects Document A101, “Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum”, 2017 Edition, including Riley County Construction Provisions attachment, shall be executed by the successful Bidder with the Owner, as amended by Document 00530 – Modifications to Agreement Form. A copy of the contractual provisions attachment is attached at the end of this section.
- B. Samples of the Agreement Form may be obtained from American Institute of Architects, <https://www.aiacontracts.org/>

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF DOCUMENT

ATTACHMENT C

Attachment C to “Contract” Between Riley County, KS (hereinafter “County”),
and **CONTRACTOR** (hereinafter “Contractor”).

The undersigned parties agree that the following provisions are hereby incorporated into the contract to which it is attached and made a part thereof.

1. **TERMS HEREIN CONTROLLING PROVISIONS.** It is expressly agreed that the terms of each and every provision in this attachment shall prevail and control over the terms of any other conflicting provision in the contract and any other document relating to and a part of the contract in which this attachment is incorporated. All terms hereof survive termination of the contract.
2. **AGREEMENT WITH KANSAS LAW.** It is agreed by and between the undersigned that all disputes and matters whatsoever arising under, in connection with or incident to the contract shall be litigated, if at all, in and before a state Court located in the State of Kansas, County of Riley, or if in Federal Court, at a Federal Court located in Topeka, Kansas, to the exclusion of the Courts of any other states or country. All contractual promises shall be subject to, governed by, and construed according to the laws of the State of Kansas, without reference to its conflict of laws principles. Both parties submit to venue and jurisdiction in these courts. In the event an action or claim arises outside of the exclusive jurisdiction specified herein which names County as a party, Contractor agrees to initiate, consent to and/or cooperate with any and all efforts to remove the matter to the exclusive jurisdiction named herein and otherwise to take any and all reasonable actions to achieve County’s objectives of this provision.
3. **COMPLIANCE WITH APPLICABLE LAWS, SERVICE STANDARDS AND REQUIRED PROCEDURES.**
 - 3.1. **Service Standards and Procedures.** Contractor shall perform the services set forth in the Contract in compliance with applicable standards and procedures specified in the Contract.
 - 3.2. **Compliance with Law.** Contractor shall comply with all applicable local, state and federal laws and regulations, in carrying out the Contract, regardless of whether those legal requirements are specifically referenced in the Contract.
4. **CASH BASIS AND BUDGET LAWS.** The right of the County to enter into the Contract is subject to the provisions of the Cash Basis Law (K.S.A. 10-1112 and 10-1113), the Budget Law (K.S.A. 79-2935), and other laws of the State of Kansas. The Contract shall be construed and interpreted so as to ensure that the County shall at all times stay in conformity with such laws, and as a condition of the Contract the County reserves the right to unilaterally terminate the Contract at any time if, in the opinion of its legal counsel, the Contract may be deemed to

violate the terms of such laws. Any Contract for a term of more than one year shall be interpreted by the parties to provide County the sole option to renew that Contract before the end of each one year term.

5. **TERMINATION DUE TO LACK OF FUNDING APPROPRIATION.** If, in the judgment of the Riley County Commissioners, after consultation with their Budget and Finance Officer or other county officials, sufficient funds are not appropriated to continue the function performed in the contract and for the payment of the charges hereunder, County may terminate the contract at the end of its current fiscal year. Termination shall be effective 30 days after County mails written notice to Contractor. In the event of such termination, County agrees to give written notice of termination to Contractor. The termination of the contract pursuant to this paragraph shall not cause any penalty to be charged to the County or the Contractor.
6. **ANTI-DISCRIMINATION CLAUSE.**
 - 6.1. In carrying out the Contract, Contractor shall comply with K.S.A. 44-1001 *et seq.*
 - 6.2. Contractor shall observe the provisions of the Kansas act against discrimination and the Kansas age discrimination in employment act, and shall not discriminate against any person in the performance of work under the Contract because of race, religion, color, sex, disability, national origin, ancestry, or age.
 - 6.3. In all solicitations or advertisements for employees, Contractor shall include the phrase "equal opportunity employer" or a similar phrase to be approved by the Kansas Human Rights Commission.
 - 6.4. If Contractor fails to comply with the provisions of K.S.A. 44-1031, requiring reports to be submitted to the Kansas Human Rights Commission when requested by that Commission, Contractor shall be deemed to have breached the Contract and it may be canceled, terminated or suspended, in whole or in part, by County.
 - 6.5. If Contractor is found guilty of a violation of the Kansas act against discrimination under a decision or order of the Kansas Human Rights Commission which has become final, Contractor shall be deemed to have breached the Contract and it may be canceled, terminated or suspended, in whole or in part by County.
 - 6.6. Contractor shall include the provisions of paragraphs 6.1 through 6.5 inclusively of this section in every subcontract or purchase order so that such provisions will be binding upon such subcontractor of Contractor.
 - 6.7. Parties to the contract understand that this paragraph number 6 is not applicable if Contractor employs fewer than four employees or if Contractor's contracts with the County cumulatively total \$5,000 or less during the County's fiscal year.

7. **ACCEPTANCE OF CONTRACT.** The contract shall not be considered accepted, approved or otherwise effective until the required approvals and certifications have been given and this Contractual Provisions Attachment is signed by the Board of County Commissioners of Riley County, Kansas.
8. **ARBITRATION, DAMAGES, WARRANTIES.** Notwithstanding any language to the contrary, no interpretation shall be allowed to find the County has agreed to binding arbitration, or the payment of damages or penalties upon the occurrence of a contingency. Further, the County does not agree to pay attorney fees and late payment charges; and no provisions will be given effect that attempts to exclude, modify, disclaim or otherwise attempt to limit implied warranties of merchantability and fitness for a particular purpose.
9. **REPRESENTATIVE'S AUTHORITY TO CONTRACT/REQUIRED DOCUMENTATION.** By signing the Contract, the representative of Contractor thereby represents that such person is duly authorized by Contractor to execute the document on behalf of Contractor and Contractor agrees to be bound by the provisions thereof. Contractor shall furnish evidence of authority to transact business in Kansas, in the form of a certificate signed by the Kansas Secretary of State.
10. **RESPONSIBILITY FOR TAXES.** The County shall not be responsible for, nor indemnify Contractor for, any federal, state or local taxes that may be imposed or levied upon the subject matter of the contract.
11. **NO INSURANCE PROVIDED BY COUNTY.** The County shall not be required to purchase, any insurance against loss or damage to any personal property to which the contract relates, nor shall the contract require the County to establish a "self-insurance" fund to protect against any such loss or damage. Subject to any applicable provisions of the Kansas Tort Claims Act (K.S.A. 75-6101 *et seq.*), Contractor shall bear the risk of any loss or damage to any personal property to which Contractor holds title.
12. **TERM AND TERMINATION.**
 - 12.1. **Term.** This Contractual Provisions Attachment shall be effective as of its date of execution by the parties and shall remain in effect during the term of the Contract, or until terminated either for convenience, breach or default, as set out herein. Thirty (30) days written notice to the breaching party is required.
 - 12.2. **Termination for Cause.** If Contractor shall fail to fulfill in a timely and proper manner its obligations under the Contract, or if Contractor shall violate any of the terms, covenants, conditions, or stipulations of the Contract, County shall thereupon have the right to terminate the Contract by promptly giving written notice to Contractor of such termination and specifying the reasons for the termination and the effective date thereof. A breach shall include, but not be limited to, failure to comply with any or all items contained in the Contract and any appendices, exhibits or amendments thereto, if any.

- 12.3. Notwithstanding the above, Contractor shall not be relieved of liability to County by virtue of any breach of the Contract by Contractor.
- 12.4. **Termination for Convenience.** County may terminate the Contract in whole or in part, upon thirty (30) days written notice to Contractor, stating the effective date of the termination for convenience.
- 12.5. **Payment Calculation upon Termination.** In the event of termination under the Contract by either party, any amount owed Contractor will be calculated based solely upon payment for fair value of acceptable services provided by Contractor to the point of termination, which fair value is not the subject of a good faith dispute. That determination of fair value of acceptable services shall be made solely by County.
13. **INDEPENDENT CONTRACTOR RELATIONSHIP.** It is agreed that the legal relationship between Contractor and County is of a contractual nature. Both parties assert and believe that Contractor is acting as an independent contractor in providing the services and performing the duties required by County hereunder. Contractor is at all times acting as an independent contractor and not as an officer, agent, or employee of County. As an independent contractor, Contractor, and employees of Contractor, will not be within the protection or coverage of County's worker's compensation insurance, nor shall Contractor, and employees of Contractor, be entitled to any current or future benefits provided to employees of County. Further, County shall not be responsible for withholding of social security, federal, and/or state income tax, or unemployment compensation from payments made by County to Contractor. Contractor shall supply all labor, equipment, supplies and materials necessary to complete the required services, at Contractor's sole expense.
14. **PERSONNEL.**
- 14.1. **Qualified Personnel.** Contractor represents that it has, or shall secure at its own expense, all personnel required in performing the services under the Contract. Such personnel shall not be employees of or have any other contractual relationship with County. All personnel engaged in the work shall be fully qualified according to the laws of the State of Kansas and the provisions of this Contract.
- 14.2. **Minimum Wages.** Contractor will comply with the minimum wage and maximum hour's provisions of the Federal Fair Labor Standards Act.
- 14.3. **Employee Conflict of Interest.** Contractor shall establish safeguards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.

15. **PROHIBITION OF CONFLICTS OF INTEREST.**

- 15.1. **Interest of Public Officials and Others.** No officer or employee of Riley County, no member of its governing body, and no other public official who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of the Contract shall participate in any decision relating to the Contract which affects such person's personal interest or the interest of any corporation, partnership, or association in which such person is directly or indirectly interested; nor shall any officer or employee of Riley County or any member of its governing body or other public official have any interest, direct or indirect, in the Contract or the proceeds thereof.
 - 15.2. **Interest of Contractor.** Contractor covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under the Contract.
 - 15.3. **Notice to Bidders.** Requests for proposal or invitations for bid issued by Contractor to implement the Contract will provide notice to prospective bidders that Riley County's conflict of interest provision is applicable and that prospective bidders who develop or draft specifications, requirements, statements of work and/or RFPs for a proposed procurement shall be excluded from bidding or submitting a proposal to compete for the award of such procurement.
16. **ASSIGNMENT.** Neither the Contract nor any rights or obligations hereunder shall be assigned or otherwise transferred by either party without the prior written consent of the other.
17. **SUBCONTRACTING.** None of the work or services covered by the Contract shall be subcontracted without the prior written approval of County. All approved subcontracts must conform to all terms set forth in the Contract and the Contractual Provisions Attachment.

18. **RECORDS, REPORTS AND INSPECTION.**

- 18.1. **Documentation of Costs.** All costs incurred by Contractor for which Contractor purports to be entitled to reimbursement under the express terms of the Contract shall be supported by properly executed payrolls, time records, invoices, contracts or vouchers, or other official documentation evidencing in proper detail the nature and propriety of charges. All checks, payrolls, invoices, contracts, vouchers, orders or other accounting documents pertaining in whole or in part to the Contract shall be clearly identified and readily accessible to both parties to the Contract.
- 18.2. **Maintenance of Records.** Except as otherwise authorized by County, Contractor shall retain such documentation for a period of three (3) years

after receipt of any applicable final expenditure report under the Contract, unless action, including but not limited to litigation or audit resolution proceedings, necessitate maintenance of records beyond this three (3) year period.

- 18.3. **Reports.** During the term of this contract, Contractor shall furnish to County, in such form, as County may require, such statements, records, reports, data and information as County requests pertaining to matters covered by this contract. Payments to Contractor will be withheld by County if Contractor fails to provide all required reports in a timely and accurate manner, until such time as all reports are furnished to County. Incomplete reports may be considered a breach of this contract.
- 18.4. **Audit.** Contractor shall provide for an annual independent audit of its financial records which apply to this Contract only and shall provide a copy of said audit to County, if requested.
- 18.5. **Availability of Records.** Upon advance written notice Contractor agrees to make any and all of its records, books, papers, documents and data available to County, or the authorized representative of a State agency with statutory oversight authority, for the purpose of assisting in litigation or pending litigation, or making audits, examinations, excerpts, copies and transcriptions at any time during the terms of this contract and for a three (3) year period following final payment under the terms of this contract.
- 18.6. **Confidentiality.** Both parties will comply with the provisions of State and federal regulations in regard to confidentiality of eligible participant records.
- 18.7. **Contractor's Purchasing Procedure.** Contractor certifies that it does not practice any form of discrimination based on race, ethnic origin, gender or religion or disability in its purchasing procedures. Contractor agrees to make available a written description of its purchasing procedures if requested by County.

19. METHOD OF BILLING AND PAYMENT.

- 19.1. **Billing Procedures.** Contractor agrees that billings and payments under the Contract shall be processed in accordance with established budgeting, purchasing and accounting procedures of Riley County, Kansas. Subject to the maximum amount of compensation prescribed herein, payment shall be made after receipt of billing, and the amount of payment shall not exceed the maximum amount allowed by the Contract.
- 19.2. **Support Documentation.** Billing shall be supported with documentation required by the County including, but not necessarily limited to, that documentation described in paragraph 18, above.
- 19.3. **Reimbursement Restrictions.** Payments shall be made to Contractor only for items and services provided to support the Contract purpose when such items and services are specifically authorized by the Contract.

County reserves the right to disallow reimbursement for any item or service billed by Contractor if County believes that such item or service was not provided to support the Contract purpose, or was not authorized by the Contract.

- 19.4. **Pre-disbursement Requirements.** Contractor must provide to County the documentation required pursuant to the Contract prior to any disbursements being made by County to Contractor.
- 19.5. **Mailing Address.** Payments shall be mailed to Contractor 's address as set forth herein.
20. **LICENSES AND PERMITS.** Contractor shall maintain all licenses, permits, certifications, bonds, and insurance required by federal, state or local authority for carrying out the Contract. Contractor shall notify County immediately if any required license, permit, bond or insurance is canceled, suspended or is otherwise ineffective. Such cancellation, suspension, or other ineffectiveness may form the basis for immediate revocation or cancellation of the Contract by County, in County's sole discretion.
21. **PUBLIC DOCUMENTS.** It is agreed that the Contract, and all subsequent agreed amendments or addenda thereto are public documents which will be filed with the Riley County Clerk, and will be open to public inspection.
22. **LIMITATION OF LIABILITY.** It is agreed that notwithstanding any language in the Contract to the contrary, County waives no defense, immunity or limitation of liability otherwise available to County under the terms of the Kansas Tort Claims Act or other applicable law.
23. **MERGER/SALE/TRANSFER OF CONTRACTOR ASSETS.** Contractor will notify County in writing at least thirty (30) calendar days in advance of Contractor 's merger with any other business entity, or of any sale or other transfer of Contractor 's assets to any other business entity. In the event of any such merger, sale or other transfer of Contractor assets, Contractor will reasonably cooperate with County in assuring that provision of all products and services under this Contract are not disrupted before, during and after such merger, sale or other transfer of Contractor assets. After such merger, sale or other transfer of Contractor assets, Contractor will reasonably cooperate with County in providing any documents or information necessary to establish any prior payments made by County to Contractor under this Contract.
24. **LIABILITY INSURANCE.** Contractor agrees to maintain the minimum limits of insurance coverage throughout the term of the agreement, as outlined in the Request for Proposal and/or the contract or agreement to which this is attached. Liability insurance coverage must be considered as primary and not as excess insurance (excluding Workers' Compensation and Professional Liability). Contractor shall furnish a certificate evidencing such coverage, with County named as an additional insured (excluding Workers' Compensation and Professional Liability), which shall be delivered to the Office of the Riley County

Counselor for approval. Such certificate shall contain a provision that coverage afforded under the policies will not be canceled, or non-renewed until thirty (30) days after County receives notice of such change by registered mail.

25. **REMOVAL OF REPRESENTATIVE.** Should County reasonably object to an individual employed or engaged by Contractor to perform the services hereunder, Contractor agrees to promptly replace that person with an individual approved by County.
26. **MODIFICATION.** This agreement may not be modified except in writing signed by the parties hereto.
27. **SURVIVABILITY.** All terms of this Contractual Provisions Attachment shall survive termination of the Contract.

Contractor:

BOARD OF COUNTY
COMMISSIONERS OF
RILEY COUNTY, KANSAS

By: _____

By: _____
John Ford, Chairman

Date

Date

ATTEST:

(seal)

Rich Vargo, County Clerk

Approved as to Form

By: _____
Clancy Holeman
Riley County Counselor

Date: _____

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

**DOCUMENT 00610
BONDS**

PART 1 GENERAL

1.01 APPLICABLE FORMS

- A. American Institute of Architects Document A312, "Performance Bond & Payment Bond", 2010 Edition.
- B. Samples of the bond form may be obtained from American Institute of Architects, <https://www.aiacontracts.org/>

1.02 BOND REQUIREMENTS

- A. The successful Bidder shall, prior to or at the time of execution of the Contract, deliver 2 copies to the Owner of the required Bonds.
- B. The successful Bidder shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder. Bonds may be obtained through the Contractor's usual source and the cost thereof shall be included in the Contract Sum. The amount of each bond shall be equal to 100 percent of the Contract Sum.
- C. Bonds shall be written by a Surety authorized to transact business in the state in which Project is located and executed by an authorized resident agent of the surety.
 - 1. Both the Surety and the surety's agent shall be subject to the owner's approval.
 - 2. Credentials showing the legal right of the surety to transact business in the state in which the Project is located shall be attached to the Bonds.
 - 3. A certified and current copy of the power of attorney for the attorney-in-fact who executes the required bonds on behalf of the surety shall be attached to the Bonds.
- D. Bonds shall become effective upon execution of the Contract.
- E. The correction period required by Document 00700 – General Conditions (AIA Document 201-2017) Subparagraph 12.2.2, the warranty required by document 00700 – General conditions (AIA Document 201-2017) Subparagraph 3.5.1, and the special warranties required by individual Sections of the Specifications, shall be incorporated into and made part of the Performance Bond.
- F. The successful Bidder agrees that changes, additions, and omissions in the Contract Documents shall in no way affect the validity of the Bonds.

1.03 PUBLIC WORKS BOND REQUIREMENTS

- A. Contractor's Public Works Bond shall be filed with the Clerk of the District Court of Riley County, Kansas, and a receipt of filing submitted to the Owner.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF DOCUMENT

**DOCUMENT 00700
GENERAL CONDITIONS**

PART 1 GENERAL

1.01 APPLICABLE DOCUMENTS

- A. The American Institute of Architects Documents A201-2017 "General conditions of the Contract for Construction", 2017 Edition is part of the Contract Documents and is included by reference, as amended by Document 00800 – Supplementary Conditions.
- B. Copies of the General conditions may be obtained from American Institute of Architects, <https://www.aiacontracts.org/>.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF DOCUMENT

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

**DOCUMENT 00800
SUPPLEMENTARY CONDITIONS**

PART 1 GENERAL

1.01 DESCRIPTION

- A. The following supplements modify, change, delete from, or add to Document 00700, General Conditions (AIA Document A201-2017.) Where a portion of the General Conditions is modified or deleted by this Document, the unaltered portion of the General Conditions shall remain in effect.

1.02 SUPPLEMENTARY CONDITIONS

- A. **ARTICLE 1 – GENERAL PROVISIONS**
1. Delete the last sentence of Subparagraph 1.1.1 and substitute the following:
The Contract Documents also include Document 00100 – Invitation to Bid, Document 00200 – Instructions to Bidders, Document 00210 – Supplementary Instructions to Bidders, Document 00410 – Bid Form, and Document 00610 – Bonds.
 2. Add the following after the last sentence of Subparagraph 1.1.1.
The Contract Documents executed or identified in accordance with Subparagraph 1.5.1 shall prevail in case of inconsistency with subsequent versions made through manipulatable electronic operations involving computers.
 3. Add the following subparagraph and clauses to Paragraph 1.1.
1.1.9 MISCELLANEOUS DEFINITIONS
 1.1.9.1 Provide: Furnish and install, or supply and install, including without limitation, all labor, materials, equipment, transportation, services, and other items required to complete referenced task.
 1.1.9.2 Furnish or Supply: Pay for, deliver (or receive), unload, inspect, and store as specified or directed while retaining care, custody, and control until received for installation by others based on a signed receipt.
 1.1.9.3 Install: Receive, set or place in position, make any required connections, and as applicable adjust and test for satisfactory performance and operation.
 1.1.9.4 Not In Contract (NIC): Products not in the Contract, but which may require provisions in the construction for the future installation as specified or indicated in the Contract Documents.
 1.1.9.5 By Owner (B.O.): Items that will be ordered, paid for, and shipped to the Project Site by the Owner. The Contractor shall receive, unload, unpack or uncrate, protect, move into place, install, and connect these items as specified or indicated in the Contract Documents.
 4. Add the following clause to Subparagraph 1.2.1.
 1.2.1.2 In the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following priorities.
 .1 The Agreement.
 .2 Addenda, with those of later date having precedence over those of earlier date.
 .3 Document 00800 – Supplementary Conditions.
 .4 Document 00700 – General Conditions.
 .5 Division 1 of the Specifications.
 .6 Drawings and Divisions 2 through 16 of the Specifications.
 .7 In the case of conflicts or discrepancies between Drawings and Divisions 2 through 16 of the Specifications, or within either Document not clarified by Addendum, the better quality or greater quantity of Work shall be deemed to be the basis of the Contractor's Bid and the Contract Sum,

and shall be provided in accordance with the Architect's interpretation, as provided under Subparagraph 4.2.11.

5. Add the following subparagraphs to Paragraph 1.2.
 - 1.2.4 Materials which are shown on the Drawings and which may not be specifically described in the Specifications or on the Drawings, shall be compatible with adjacent materials, and shall be subject to review and acceptance by the Architect for conformance with the intent of the Contract Documents. Where installation techniques are not specified, they shall be in accordance with manufacturer's current instructions and industry standards, as acceptable to the Architect.
 - 1.2.5 Sections of Division 1 – General Requirements, govern the execution of all Sections of the Specifications.
 6. Add the following subparagraph to Paragraph 1.4.
 - 1.4.1 Where items are specified by use of reference standard specifications, the date of the reference shall be the latest edition published as of the date of the Agreement unless a specific edition is referenced in the Specifications or in an applicable code, in which case the referenced edition shall govern.
 7. Add the following subparagraph to Paragraph 1.5.2.
 - 1.5.2.1 Contractor's Use of Instruments of Service in Electronic Form.
 - 1.5.2.1.1 The Architect may, with the concurrence of the Owner, afford the Contractor versions of Instruments of Service in electronic form. The Contract Documents executed or identified in accordance with Subparagraph 1.5.1 shall prevail in case of an inconsistency with subsequent versions made through manipulatable electronic operations involving computers.
 - 1.5.2 The Contractor shall not transfer or reuse Instruments of Service in electronic or machine readable form without the prior written consent of the Architect.
- B. ARTICLE 2 – OWNER
1. Delete Paragraph 2.2 in its entirety.
- C. ARTICLE 3 – CONTRACTOR
1. Add the following subparagraph to Paragraph 3.2.
 - 3.2.5 The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for the Architect and the Architect's consultants to evaluate and respond to the Contractor's request for information, where such information was available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner provided information, Contractors prepared coordination drawings, or other prior Project correspondence of documentation.
 2. Add the following after the last sentence of Subparagraph 3.3.1

The Contractor shall review any specified construction or installation procedures, including those recommended by any manufacturer of products included in the Work. The Contractor shall advise the Architect in writing prior to the commencement of such construction or installation procedure, (1) if any specified procedure deviates from good construction practice, (2) if following any procedure will affect any warranties, or (3) of any objections which the Contractor may have to any procedure.
 3. Delete Subparagraph 3.4.2 and substitute the following.
 - 3.4.2 The Contractor may make substitutions only with the consent of the Owner and Architect in accordance with Section 01630, and in accordance with a Change Order.
 4. Add the following subparagraph to Paragraph 3.4.
 - 3.4.4 The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect and the Architect's consultants to evaluate the Contractor's

- proposed substitutions and to make agreed-upon changes to the Drawings and Specifications made necessary by the Owner's acceptance of such substitutions.
5. Add the following subparagraph to Paragraph 3.5.
3.5.2 The Contractor's warranty shall include the performance of products covered by any proprietary specification, and the results of construction procedures specifically required by the Contract Documents.
 6. Delete Subparagraph 3.6. and substitute the following.
3.6. The Owner is exempt from sales, consumer, and use taxes.
 7. Add the following subparagraph to Paragraph 3.6.
3.6.2 The Contractor shall exclude from the Contract Sum all sales, consumer, use and similar taxes for the Work or portions thereof provided by the Contractor. The Owner will provide the Contractor a sales and compensating tax exemption certificate number issued by the State of Kansas for the Contractor's use in purchasing materials and equipment to be incorporated into the Work. Upon completion of the Work, the Contractor shall submit a project completion certificate to the Owner and to the State of Kansas Department of Revenue, Business Tax Bureau, located at Robert B. Docking State Office Building, Topeka, Kansas 66625. The Contractor shall retain all invoices associated with the purchase of tangible personal property and materials incorporated or consumed in the construction of the Work, for a period of 5 years from the Date of Substantial Completion.
 8. Delete the first sentence of Subparagraph 3.9.1 and substitute the following.
3.9.1 The Contractor shall employ a full time competent superintendent and necessary assistants who shall be in attendance at the Project Site at all times during performance of the Work.
 9. Add the following subparagraph to Paragraph 3.9.
3.9.4 The superintendent shall not be removed or replaced without written consent of the Owner.
 10. Delete the first sentence of Subparagraph 3.10.1 and substitute the following.
3.10.1 The Contractor shall prepare and submit for the Owner's and Architect's information, a Contractor's Construction Progress Schedule for the Work in accordance with Section 01320.
 11. Add the following subparagraph to Paragraph 3.12.
3.12.11 The Architect's review of the Contractor's submittals will be limited to examination of an initial submittal and 1 resubmittal. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for evaluation of such additional submittals.
 12. Add the following subparagraph to Paragraph 3.14.
3.14.3 Refer to Section 01732 for additional requirements.
 13. Add the following subparagraph to Paragraph 3.18.
3.18.3 In the event that any party is requested but refuses to honor the indemnity obligations under this Paragraph 3.18, then the party indemnifying shall, in addition to all other obligations, pay the cost of bringing any such action, including the cost of attorney's fees, to the party requesting indemnity.
- D. ARTICLE 4 – ADMINISTRATION OF THE CONTRACT
1. Add the following clause to Subparagraph 4.2.2.

4.2.2.1 The Contractor shall reimburse the Owner for compensation paid to the Architect for additional Site visits made necessary by the fault, neglect, or request of the Contractor.
 2. Add the following clause to Subparagraph 4.2.4.
4.2.4.1 The Contractor shall confirm in writing within 48 hours, with copies to the Architect, any direct communication between the Owner and Contractor which

may affect the performance or administration of the Contract. Any such communication that represents a Modification of the Contract requirements shall be documented appropriately prior to any Modification being incorporated into the Work.

3. Add to the end of Subparagraph 4.2.11 the following.
If no written agreement is made concerning the time within which interpretations required of the Architect shall be furnished in compliance with this Paragraph 4.2, then delay shall not be recognized on account of failure by the Architect to furnish such interpretations until 15 days after written request is made for them.
4. Add the following subparagraph to Paragraph 4.2.
4.2.14.1 The Architect shall be immune from liability for the Architect's acts and omissions related to the provisions of Paragraph 4.3 and its related subparagraphs and clauses.
5. **Add the following Section 3.19 Claims.**
3.19.1 The Contractor shall give written notice to the Architect within 21 days of any event that may give rise to a Claim, whether or not any impact in the Contract Sum or in the Contract Time has been determined, if the Contractor wishes to reserve the Contractor's rights under Paragraph 3.19.
6. 3.19.2
The Contractor shall have no claim for damages against the Owner or the Architect by reason of delay if the Date of Substantial Completion of the Work is within the Contract Time as defined in Subparagraph 8.1.1.
7. 3.19.3 Claims for increase in the Contract Time shall set forth in detail the circumstances that form the basis for the Claim, the date upon which each cause of delay began to affect the progress of the Work the date upon which each cause of delay ceased to affect the progress of the Work, and the number of days' increase in the Contract Time claimed as a consequence of each such cause of delay. The Contractor shall provide such supporting documentation as the Owner may require including, a revised Contractor's Construction Schedule indicating all the activities affected by the circumstances forming the basis of the Claim. No Claim for an increase in Contract Time will be reviewed without the submission or a revised Contractor's Construction Schedule indicating all the activities affected by the circumstances forming the basis of the Claim.
3.19.3.1 The Contractor shall not be entitled to a separate increase in the Contract Time for each one of the number of causes of delay which may be concurrent or interrelated effects on the progress of the Work, or for concurrent delays due to the fault of the Contractor.
3.19.3.2 For the purposes of evaluating claims submitted with regard to adverse weather conditions, in order for any request for time extension due to adverse weather to be valid Contractor must document both of the following conditions:
.1 Weather experience at Project Site during the Contract period is more severe than the adverse weather anticipated for the Project location during any given month.
.2 Unusually severe weather actually caused a delay to the completion of the Work. The delay must be beyond the control and without fault or negligence by the Contractor.
3.19.3.3 The following schedule of monthly anticipated adverse weather delays shall constitute the baseline for monthly weather time evaluations. This schedule of monthly anticipated adverse weather delays shall be the basis of the Contract Sum and the Contract Time related to adverse weather. The Contractor's Construction Progress Schedule shall reflect these anticipated adverse weather delays in all weather affected activities.

- .1 January: 12 work days.
- .2 February: 10 work days.
- .3 March: 7 work days.
- .4 April: 7 work days.
- .5 May: 7 work days.
- .6 June: 8 work days.
- .7 July: 7 work days.
- .8 August: 5 work days.
- .9 September: 6 work days.
- .10 October: 5 work days.
- .11 November: 5 work days.
- .12 December: 9 work days.

3.19.3.4 Upon receipt of the Notice to Proceed, and continuing throughout the Contract, Contractor shall record on the Contractor's daily construction report, the occurrence of adverse weather and resultant impact to normally scheduled Work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's schedule work day.

3.19.3.5 The number of actual adverse weather delay days shall be calculated chronologically from the first to the last day of each month, and be recorded as full work days.

3.19.3.6 Full consideration for equivalent fair weather work days shall be given. If the number of actual adverse weather delays in a given month is less than the number of days anticipated in Clause 3.19.3.3 above, the difference will be accumulated and subtracted from any future month's days lost due to unusually severe weather.

- .1 The net cumulative total of extra days/lost days shall not result in a reduction of Contract Time, and the Date of Substantial Completion shall not be changed as a result of unusually favorable weather.

3.19.3.7 Contractor shall summarize and report all actual adverse weather delay days for each month to the Architect by the 10th day of the following month. A narrative indicating the impact of adverse weather conditions on the Construction Progress Scheduled critical activities shall be included.

- .1 Any claim for an extension to the Contract Time due to unusually severe weather shall be submitted to the Architect within 21 days of the last day of the month in which the delay occurred. Resolution of any claim shall follow the procedures established by Document 00700 – General Conditions, and this Document 00800.
- .2 The determination that unusually severe weather occurred does not automatically mean an extension of time will be granted. Contractor must substantiate, to the satisfaction of the Architect, the unusually severe weather delayed work activities on the critical path of the Construction Progress Schedule.

3.19.4 Contractor shall include and indicate the monthly anticipated adverse weather days listed in Clause 3.19.3.3 above, in Contractor's Construction Progress Schedule. Refer to Section 01320 for Construction Progress Schedule requirements.

E. ARTICLE 5 – SUBCONTRACTORS

- 1. Add the following after the last sentence of Paragraph 5.2.1.
Notice of no reasonable objection shall in no way be construed or indicate prior acceptance or approval of materials or equipment for which persons or entities

may be agents or representatives, and shall not relieve the Contractor from full and complete responsibility for the quality of the Work and performance of those with whom the Contractor executes a contract.

2. Delete the Subparagraph 5.2.4 and substitute the following.

5.2.4 The Contractor shall not change a Subcontractor, material supplier, equipment supplier, person, or entity previously selected if the Owner or Architect makes reasonable objection to such substitute.

3. Add the following subparagraph to Paragraph 5.2.

5.2.5 Upon request of the Architect or Owner, the Contractor shall within five days provide a copy of all subcontracts, including all changes and modifications. The Contractors shall provide a detailed description of all items which do not appear in writing and all subcontracts which do not appear in writing.

4. Add the following subparagraphs to Paragraph 5.3.

5.3.2 Subparagraph 5.3.1 shall also apply to material and equipment suppliers.

5.3.3 The Contractor shall require each Subcontractor to designate one individual as the on-Site foreman/supervisor of the Subcontractor's Work, who shall direct the Work at all times the Subcontractor is performing Work and who shall confer with the Contractor before reducing work forces or leaving the Project unstaffed. The foreman/supervisor shall act for the Subcontractor in all areas as designated by the Subcontract.

F. ARTICLE 7 – CHANGES IN THE WORK

1. Add the following subparagraph and clauses to Paragraph 7.1.

7.1.4 The combined overhead and profit included in the total cost to the Owner of a change in the Work shall be based on the following schedule.

- .1 For the Contractor, for Work performed by the Contractor's own forces, ten percent of the cost.
- .2 For the Contractor, for Work performed by the Contractor's Subcontractors, five percent of the amount due the Subcontractor.
- .3 For each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub-subcontractor's own forces, ten percent of the cost.
- .4 For each Subcontractor involved, for Work performed by the Subcontractor's Sub-subcontractors, five percent of the amount due the Sub-subcontractor.
- .5 Cost to which overhead and profit is to be applied shall be determined in accordance with Subparagraph 7.3.6.
- .6 In order to facilitate checking of Contractor's proposals for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of cost including labor, materials, and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change involving over \$100.00 be approved without such itemization.

2. Delete the first sentence of Subparagraph 7.3.6 and substitute the following.

7.3.6 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the method and the adjustment shall be determined by the Architect on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an allowance for overhead and profit in accordance with Subparagraph 7.1.4.

G. ARTICLE 8 – TIME

1. Add the following subparagraph to Paragraph 8.2.

8.2.4 The Contractor, Subcontractors, sub-subcontractors, and suppliers shall furnish sufficient forces, construction plant, and equipment, and shall work such hours as may be required to insure the prosecution of the Work in accordance with the time periods specified in the Contract Documents. If in the opinion of the Owner, the Contractor falls behind the Construction Progress Schedule, the Contractor shall take such steps as may be necessary to improve the progress. The Owner may require the Contractor to increase the number of shifts, and/or overtime operations, and days of work including holidays, Saturdays and Sundays, all without additional costs to the Owner.

2. Delete Subparagraph 8.3.3 and substitute the following.

8.3.3 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner, or by labor disputes, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control, or by delay authorized by the Owner pending mediation and arbitration, or by other causes which the Architect determines may justify delay, the Contractor's sole and exclusive remedy for the delay shall be the right to a time extension for completion of the Contract and not damages. This Paragraph 8.3 does not preclude the Owner's recovery of damages for Contractor caused delay including the Owner's cost for the Architect's additional services which are incurred by the Contractor's unauthorized delays, or under any other provision of the Contract Documents.

H. ARTICLE 9 – PAYMENTS AND COMPLETION

1. Add the following clause to Subparagraph 9.3.1.

9.3.1.3 Until final payment, the Owner shall pay ninety percent of the amount due the Contractor on account of progress payments.

2. Delete Subparagraph 9.7. and substitute the following.

9.7 If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Architect or awarded by arbitration, then the Contractor may, upon seven additional days' written notice to the Owner and Architect, stop the Work until payment of the Amount owing has been received. The Contract time shall be extended appropriately.

3. Add the following clause to Subparagraph 9.8.3.

9.8.3.1 Except with the consent of the Owner, the Architect will perform no more than 2 site visits to determine whether the Work or a designated portion thereof has attained Substantial Completion in accordance with the Contract Documents. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional visits.

4. Delete the last 2 sentences of Subparagraph 9.8.5.

5. Add the following clause to Subparagraph 9.10.1.

9.10.1.1 Except with the consent of the Owner, the Architect will perform no more than 2 site visits to determine whether the Work or a designated portion thereof has attained Final Completion in accordance with the Contract Documents. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional visits.

6. Add the following clause to Subparagraph 9.10.2.

9.10.2.1 Refer to Section 01770 for additional requirements.

7. Delete Subparagraph 9.10.4 and Clauses 9.10.4.1, 9.10.4.2, and 9.10.4.3 in their entirety and substitute the following.

- 9.10.4 The making of Final Payment shall constitute a waiver of Claims by the Owner except those arising from:
- .1 liens, Claims, security interest or encumbrances arising out of the Contract and unsettled;
 - .2 faulty or defective Work appearing after Final Payment is made;
 - .3 failure of the Work to comply with the requirements of the Contract Documents;
 - .4 terms of any warranties required by the Contract Documents; or
 - .5 damages, whether direct, consequential, indirect, or unliquidated, sustained or asserted either as a result of any wrongful act or neglect of the Contractor, or as a result of any breach of Contract.
8. Add the following paragraph to Article 9.
- 9.11 If the Contractor refuses, neglects, or fails to complete the Work within the time stated in the Contract, then the Contractor and the Contractor's surety, if any, shall be liable for and shall pay the Owner, not as a penalty but as liquidated damages, the sum of \$500.00 for each calendar day, for each phase defined in Section 01110, that the Contractor is in default after the time stipulated in the Contract for completing the Work until the Work is Substantially Complete. The Owner may withhold from payments due the Contractor, such amounts as may be assessed as liquidated damages. Upon Substantial and Final Completion of the Work the Owner may adjust the Contract Sum by the amount of the assessed liquidated damages.
- I. **ARTICLE 10 – PROTECTION OF PERSONS AND PROPERTY**
1. Add the following clauses to Subparagraph 10.2.4.
- 10.2.4.1 When use or storage of explosives, or other hazardous materials, substances or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall give the Owner reasonable advance written notice.
- 10.2.4.2 If the Contract Documents require the Contractor to handle materials or substances that under certain circumstances may be designated as hazardous, the Contractor shall handle such materials in an appropriate manner.
- J. **ARTICLE 11 – INSURANCE AND BONDS**
1. Add the following clauses to Subparagraph 11.1.2.
- 11.1.2.1 The limits for Worker's Compensation and Employer's Liability Insurance shall meet the statutory limits mandated by State and Federal Laws. If (1) limits in excess of those required by statute are to be provided or (2) the employer is not statutorily bound to obtain such insurance coverage or (3) additional coverages are required, additional coverages and limits for such insurance shall be as follows.
- State: Statutory.
- Applicable Federal (e.g. Longshoremen's): Statutory.
- Employer's Liability: \$500,000 per Accident.
- 11.1.2.2 The limits for Commercial General Liability insurance including coverage for Premises-Operations, Independent Contractor's Protective, Products-Completed Operations, Contractual Liability, Personal Injury and Broad Form Property Damage (including coverage for Explosion, Collapse and Underground hazards) shall be as follows:
- \$1,000,000 Each Occurrence.
- \$1,000,000 General Aggregate.
- \$1,000,000 Personal and Advertising Injury.
- \$1,000,000 Products-Completed Operations Aggregate.
- .1 The policy shall be endorsed to have the General Aggregate apply to this Project only.

- .2 The Contractual Liability insurance shall include coverage sufficient to meet the obligations in Paragraph 3.18 of Document 00700 – General Conditions (AIA Document A201-2017).
- .3 Products and Completed Operations insurance shall be maintained for a minimum period of at least 2 years after final payment.
- 11.1.2.3 Automobile Liability insurance (owned, non-owned and hired vehicles) for bodily injury and property damage shall be as follows:
\$1,000,000 Each Accident.
- 11.1.2.4 Umbrella or Excess Liability coverage shall be as follows:
\$1,000,000 over primary insurance.
\$1,000,000 retention for self-insured hazards each occurrence.
- 11.1.2.5 The Owner, the Architect and the Architect's consultants shall be included as additional insured under policies required by Paragraph 11.1.
- 4. Add the following after the last sentence of Subparagraph 11.1.3.
If this insurance is written on a Commercial General Liability policy form, the certificates shall be ACORD form 25-S, completed and supplemented in accordance with American Institute of Architects (AIA) Document G715, Instruction Sheet and Supplemental Attachment for ACORD Certificate of Insurance 25-S.
- 5. 11.1.2.6 The Contractor shall at the Contractor's own expense provide insurance coverage for materials stored off the Site after written approval of the Owner at the value established in the approval, and also for the portions of the Work in transit until such materials are permanently attached to the Work.
- 6. 11.1.2.7 The insurance required by Paragraph 11.1.2 is not intended to cover machinery, tools or equipment owned or rented by the Contractor that are utilized in the performance of the Work but not incorporated into the permanent improvements. The Contractor shall, at the Contractor's own expense, provide insurance coverage for owned or rented machinery, tools or equipment, which shall be subject to the provisions of Subparagraph 11.1.2
- K. ARTICLE 13 – MISCELLANEOUS PROVISIONS
 - 1. Add the following paragraph to Article 13.
13.6 EQUAL EMPLOYMENT OPPORTUNITY
13.6.1 The Contractor shall comply with the provisions of Kansas Act Sec. 1-5 of K.S.A. 44-1030 against discriminate and shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin or age. The Contractor shall take affirmative action to ensure that applicants are employed, and that applicants are treated during employment, without regard to that applicant's race, religion, color, sex, national origin or age. Such action shall include, but not be limited to, employment, upgrading, demotion, transfer, recruitment advertisement, layoff, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices setting forth the requirements of these non-discrimination provisions.
13.6.2 The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin, or age.
13.6.3 The Contractor shall include all of this Paragraph 13.8 in every subcontract or purchase order, and shall require each Subcontractor and material and equipment supplier to include this Paragraph 13.8 in each of the subcontracts and purchase orders, so that such provisions will be binding upon each Subcontractor, Sub-subcontractor, and material and equipment supplier.

13.6.4 In the event of the Contractor's noncompliance with any portion of this Paragraph 13.8 or the Contractor's noncompliance with K.S.A. 1976 Supp 44-1030 and its amendments, the contractor shall be deemed to have breached this contract and the Owner may cancel, terminate, or suspend this Contract.

L. **ARTICLE 14 – TERMINATION OR SUSPENSION OF THE CONTRACT**

1. Delete Clause 14.1.1.4 in its entirety.
2. Delete Subparagraph 14.1.3 and substitute the following.
14.1.3 If one of the reasons described in Subparagraph 14.1.1 or 14.1.2 exist, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed and for proven loss with respect to materials and equipment, including reasonable overhead.
3. Add the following subparagraph to Paragraph 14.1.
14.1.5 Under Paragraph 14.1, the Contractor shall be paid only for the value of Work completed and material supplied as of the date of termination and the Contractor shall not be entitled to anticipated profits or anticipated overhead upon the whole Contract or for other direct or consequential damages arising out of or resulting from the Contractor's termination from either the Owner or the Architect.
4. Add the following subparagraphs to Paragraph 14.2.
14.2.5 If, after notice of termination for failure to fulfill Contract obligations, it is determined that the Contractor had not defaulted, the termination shall be deemed to have been effected for the convenience of the Owner, and the Contractor shall be paid in accordance with Paragraph 14.2.4.
14.2.6 Under Paragraph 14.2, the Contractor shall be paid only for the value of Work completed and material supplied as of the date of termination, and the Contractor shall not be entitled to anticipated profits or anticipated overhead upon the whole Contract or for other direct or consequential damages arising out of or resulting from Owner's termination from either the Owner or the Architect.
5. Add the following subparagraph to Paragraph 14.3.
14.3.3 Under Paragraph 14.3, the Contractor shall be paid only for the value of Work completed and material supplied as of the date of termination, and the Contractor shall not be entitled to anticipated profits or anticipated overhead upon the whole Contract or for other direct or consequential damages arising out of or resulting from the Owner's termination from either the Owner or the Architect.
6. Delete Subparagraph 14.4.3 and substitute the following.
14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment only for Work executed and material stored at the Site as of the date of termination, and the Contractor shall be entitled to anticipated profits or anticipated overhead upon the whole Contract, or for other direct or consequential damages or any other claimed damages arising out of or resulting from the Owner's termination from either the Owner or the Architect.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF DOCUMENT 00800

08078 Riley County Fire District #1
SECTION 00800 – SUPPLEMENTARY CONDITIONS

SECTION 01110 SUMMARY OF WORK

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Definitions
 - 2. Work covered by Contract Documents
 - 3. Contracts
 - 4. Work under other contracts
 - 5. Owner supplied products
 - 6. Construction Sequence
 - 7. Contractor's use of Site and premises
 - 8. Specification formats and conventions

1.02 DEFINITIONS

- A. Owner: When the Term "owner" is used in the contract Documents it is understood to mean Riley County Fire District #1 or its authorized representative.
- B. Architect: When the Term "Architect" is used in the Contract Documents it is understood to mean Anderson Knight Architects, or its authorized representative.

1.03 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work comprises the complete construction required by the Bidding Documents for, Riley County Fire District #1 Fire Stations located at University Park Station 110 and Ashland Bottoms Station 102, and includes all labor necessary to produce such construction and all materials and equipment incorporated or to be incorporated in such construction as well as temporary facilities necessary to the construction process.

1.04 CONTRACTS

- A. The Work will be constructed under a general construction contract.

1.05 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Limit construction operations to areas noted on Drawings.
 - 1. Do not disturb portions of site beyond areas in which the Work is indicated.
 - 2. Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times.
 - a. Do not use these areas for parking or storage of materials.
 - b. Schedule deliveries to minimize use of driveways and entrances.
 - c. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- B. Limit use of Site and premises to allow the following.
 - 1. Owner occupancy.
 - 2. Work by Owner's separate contractors.
 - 3. Use of Site and premises by public.
 - 4. Storage of Contractor's material, equipment, and tools is limited to primary area of construction activity, as determined by Owner.
- C. Access to Site: Limited to locations determined by Owner.
- D. Restrict construction activity to the normal business hours, unless otherwise approved by Owner.
- E. Minimize disruption and inconvenience to public's use of adjacent areas.
- F. Do not obstruct existing access and egress from adjacent Site facilities.

- G. Tobacco Policy: The Owner prohibits the use of tobacco products in its facilities and on its property.
1. Contractor shall enforce this policy with Contractor's employees, Contractor's subcontractors, and their employees.

1.06 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and the Construction Specification Institutes (CSI) "MasterFormat" numbering system.
1. Section identification: The Specifications use section numbers and titles to help cross referencing in the Contract Documents.
 2. Sections in the Project Manual are in numeric sequence. However, the sequence is incomplete. Consult Document 00010 – Project Manual Table of Contents to determine numbers and names of sections in the Contract Documents.
- B. Specification Content: The Specifications use the following conventions for the style of language and the intended meaning of certain terms, words, and phrase when used in particular situations.
1. Abbreviated language:
 - a. Language used in the Specifications and other Contract Documents is abbreviated and contain incomplete sentences.
 - b. Words which do not contribute to clear and concise directions have been omitted (e.g. "the Contractor shall", "shall be", and "as indicated on the Drawings.").
 - c. Words and meanings shall be interpreted by the Architect as appropriate.
 - d. Words implied, but not stated, shall be inferred as the sense requires.
 - e. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 2. Imperative mood and streamlined language are generally used in the Specification.
 - a. Requirements expressed in the imperative mood are to be performed by Contractor.
 - b. Occasionally, the indicative or subjunctive mood may be used in Section text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - c. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase. (e.g. "Color: Brown.")
 - d. The inferred subject of clauses or sentences starting with a verb shall be the Contractor, (or subcontractor, or supplier) responsible for the Work of the Specification Section in which it occurs.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

21022 Riley County Fire District #1
SECTION 01110 – SUMMARY OF WORK

**SECTION 01250
CONTRACT MODIFICATION PROCEDURES**

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes:
1. Minor changes in the work.
 2. Proposal request.

1.02 MINOR CHANGES IN THE WORK

- A. Architect will advise Contractor of minor changes in Work not involving an adjustment to Contract Sum or Contract Time as authorized by Document 00700 Paragraph 7.4 by issuing Architect's Supplemental Instructions.

1.03 PROPOSAL REQUEST

- A. Owner-Initiated Proposal Requests:
1. Architect may issue a Proposal Request, including detailed descriptions of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time.
 - a. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - b. Proposal Requests issued by Architect are for information only. Do not consider them instructions either to stop Work in progress or to execute the proposed change.
 2. Contractor shall submit cost proposal, including any request for an extension in Contract Time, within 14 days of receipt of Proposal Request.
 3. In order to facilitate checking of Contractor's proposals for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of cost including labor, materials, and Subcontracts. Labor and materials shall be itemized in the manner prescribed in Document 00800 under Subparagraph 7.1.4. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change involving over \$100.00 be approved without such itemization. Document each proposal for a change in cost or time with sufficient data to support computations, including the following:
 - a. Include list of quantities of Products, labor, and equipment required or eliminated and unit costs, with total amount of purchases and credits to be made.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Indicate amounts for insurance and bonds.
 - d. Indicate amounts for Contractor's overhead and profit.
 - e. Include justification for any change in Contract Time.
 - f. Include credit for deletions from Contract, similarity documented.
 - g. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity durations, start and finish times, and activity relationship.
 - 1) Use available total float before requesting an extension of the Contract Time.
- B. On Owner's approval of a proposal request, Architect will issue Change Orders for signatures by Owner and Contractor as provided in Document 00700.

1. Upon execution of a Change Order, Contractor shall promptly revise Construction Progress Schedule and Schedule of Values accordingly.

1.04 CONSTRUCTION CHANGE DIRECTIVE

- A. Architect may issue a Construction Change Directive, signed by Owner and Architect, including detailed descriptions of changes, and identifying method for determining any change in Contract Sum or Contract Time, instructing Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 1. Contractor shall promptly execute the change.
 2. Construction Change Directives shall be issued on American Institute of Architects Document G714, 2017 Edition.
- B. Contractor shall maintain detailed records for changes in the Work performed on a time and material basis, in accordance with Document 00700, Article 7.
 1. Submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.
- C. Architect will issue Change Orders for Signatures by Owner and Contractor as provided in Document 00700.
- D. Upon execution of a Change Order or issuance of a Construction Change Directive, Contractor shall promptly revise Construction Progress Schedule and Schedule of Values accordingly.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

Not used.

END OF SECTION 01250

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01290 PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Schedule of values.
 - 2. Purchase of material and equipment.
 - 3. Applications for payment.
- B. Related Sections:
 - 1. Document 00700 – General Conditions.
 - 2. Document 00800 – Supplementary Conditions
 - 3. Section 01770 – Closeout Procedures.

1.02 SCHEDULE OF VALUES

- A. Within 30 days of Notice of Award, submit one electronic copy of typed Schedule of Values on American Institute of Architect (AIA) Document G702, Application and Certificate for Payment, supported by Document G703, Continuation Sheet.
- B. Format: Table of Contents of Project Manual.
 - 1. Identify each line item with number and title of Project Manual Section.
 - a. Include a separate line item for each of the following.
 - 1) Bonds.
 - 2) Insurance.
 - 2. Dollar amounts shall include material, labor, overhead, and profit applicable to each individual item indicated.

1.03 PURCHASE OF MATERIAL AND EQUIPMENT

- A. The Owner will provide the Contractor a tax exempt number issued by the State of Kansas for the Contractor's use in purchasing Products and materials to be incorporated into the Work.

1.04 APPLICATIONS FOR PAYMENT

- A. Format: Electronic copies of American Institute of Architects (AIA) Document G702, Application and Certificate for Payment, supported by Document G703, Continuation Sheet.
- B. Payment Period: Intervals beginning the first day of each month and ending the last day of each month.
 - 1. Submitted by the first of the month to be paid that month.
- C. Preparation of Applications:
 - 1. Present required information in electronic form consistent with the approved Schedule of Values.
 - 2. Execute application by signature of authorized office of Contractor's firm.
 - 3. Use date from approved Schedule of Values.
 - a. Indicate dollar value in each column of each line item for portion of Work completed through the last day of the application period, and for products properly stored in accordance with the Contract Documents through the last day of the previous application period.
 - b. Round off dollar values to nearest dollar.
 - c. Complete every entry on form.
 - 4. Indicate each authorized Change Order and Construction Change Directive as separate items on continuation sheet.
 - a. List by appropriate Change Order Number and Constructive Change Directive Number.

- b. Indicated dollar value breakdown of each Change Order by Each applicable Project Manual Section.
 - c. Indicate dollar value breakdown of each undisputed Construction Change Directive by each applicable Project Manual Section.
 - D. Submittal Procedure:
 - 1. Submit an electronic copy of each Application for Payment.
 - 2. Submit an updated Construction Progress Schedule with each Application for Payment.
 - 3. Submit waivers of mechanics liens from Contractor, Subcontractors, sub-subcontractors, and material and equipment suppliers for amounts certified by Owner for construction period covered by previous application for payment.
 - a. Submit on form acceptable to Owner.
 - 4. Substantiating data:
 - a. When Owner or Architect requires substantiating information to support Contractor's application for payment, submit data justifying dollar amount which are in question.
 - b. Provide an electronic copy of data with cover letter for each copy of Application for Payment.
 - 1) Indicate application number and date.
 - 2) List each item in question by continuation sheet identification.
 - 5. Submit application for final payment in accordance with Document 00700.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01310 PROJECT MANAGEMENT AND COORDINATION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Coordination
 - 2. Progress meetings.

1.02 COORDINATION

- A. Coordinate scheduling, submittals, and Work of various Sections of the Project Manual to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items installed later.
- B. Verify utility requirements and characteristics of elements of interrelated operating equipment are compatible. Coordinate Work of various Sections having interdependent responsibilities for installing, connection to, and placing in service such equipment.
- C. Coordinate space requirements for installation of mechanical and electrical work.
- D. Coordinate completion and clean up of Work of separate Sections in preparation for Substantial Completion and for portions of Work designated for Owner's occupancy.
- E. After Owner occupancy of premises, coordinate access to Site for correction of defective Work and Work not in accordance with Contract Documents with Owner, to minimize disruption of Owner's activities.

1.03 PROGRESS MEETINGS

- A. Contractor shall schedule and administer progress meetings for review of Progress Construction Schedule and field coordination problems, at intervals appropriate to the progress of construction, at a time and date agreeable to Owner.
- B. Required Attendance:
 - 1. Owner.
 - 2. Contractor.
 - 3. Contractor's superintendent.
 - 4. Subcontractors active on Site.
- C. Contractor shall prepare agenda, preside at meeting, record minutes, and distribute electronically within 4 days after meeting to Owner, participants of meeting, and those affected by decisions made.
 - 1. Suggested agenda:
 - a. Review minutes of previous meetings.
 - b. Review Work progress.
 - c. Field observations, problems, and decisions.
 - d. Identification of problems which impede planned progress.
 - e. Review of submittal schedule and status of submittals.
 - f. Review of off-Site fabrication and delivery schedules.
 - g. Maintenance of Construction Progress Schedule.
 - h. Corrective measures to regain projected schedules.
 - i. Planned progress during succeeding work period.
 - j. Coordination of projected progress.
 - k. Maintenance of quality and work standards.
 - l. Effect of proposed changes on Construction Progress Schedule and coordination.
 - m. Other items related to Work.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01320 CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Construction progress schedule.

1.02 CONSTRUCTION PROGRESS SCHEDULE

- A. Within 30 days of Notice of Award, submit a digital file of the horizontal bar chart with separate line item for each major portion of Work indicated on the Schedule of Values.
1. Contractor's Construction Progress Schedule shall include full Contract Time period.
 - a. Schedules indicating completion of the Work after the contractual Date of Substantial Completion will not be accepted.
 2. Identify first work day of each week.
 3. Show complete sequence of construction by activity, identifying work of separate stages and other logically grouped activities.
 4. Indicate early and late start, early and late finish, float dates, and duration of activities.
 5. Indicate proper sequence of each activity.
 6. Indicate sequences necessary for completion of related portions of the Work.
 7. Indicate projected percentage of completion for each activity as of time of each progress Application for Payment.
 8. Provide sub-schedules for each stage or phase of Work identified in Section 01110.
- B. Submit an electronic copy of revised construction schedule with each progress Application for Payment.
- C. Recovery Schedule:
1. Should the updated Construction Schedule show Contractor to be 10 or more days behind schedule at any time during the Contract Time, Contractor shall prepare a Recovery Schedule, at no additional cost to the Owner, to show a plan for returning to the Construction Schedule requirements during the subsequent payment period.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01330 SUBMITTAL PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Submittal procedures.
 - 2. Submittal schedule.
 - 3. Subcontractors and material list.
 - 4. Product data, shop drawings, and sample review procedures.
 - 5. Contractor responsibilities for submittals.
 - 6. Product data.
 - 7. Shop drawings.
 - 8. Samples.
 - 9. Manufacturer's installation instructions.
 - 10. Manufacturer's certificates.
 - 11. Test reports.
 - 12. Contract closeout submittals.
- B. Related Sections:
 - 1. Section 01400 – Quality Requirements.
 - 2. Section 01770 – Closeout Procedures.

1.02 SUBMITTAL PROCEDURES

- A. Deliver physical samples of materials for submittals to Architect at address listed in Project Manual. Electronic copies of submittals will be accepted by the Architect.
 - 1. Transmit each submittal with Contractor's transmittal form.
- B. Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 2. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 3. Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - 4. Architect reserves the right to withhold review on a submittal requiring coordination with other submittals until all related submittals are received by Architect.

1.03 SUBMITTAL SCHEDULE

- A. Within 30 days of Notice of Award, submit a digital copy of a Submittal Schedule for Product Data, Shop Drawings, and Samples.
- B. Prepare Submittal Schedule to comply with the Construction Progress Schedule for submittals related to Work progress.
- C. Prepare Submittal Schedule in chronological order, including the following.
 - 1. Schedule date for initial submittal.
 - 2. Related Specification Section number and title.
 - 3. Type of submittal (Product Data, Shop Drawings, or Samples).
 - 4. Name of subcontractor or supplier.
- D. After review by Architect, revise as required and resubmit within 7 days.

1.04 SUBCONTRACTORS AND MATERIAL LIST

- A. Within 15 days of Notice of Award, submit in writing, an electronic copy of the names of persons or entities proposed as manufacturers, fabricators, or material suppliers for the Products, equipment, and systems identified in individual Specification Sections, including the names of the installing Subcontractor.
 - 1. Provide names, addresses, and telephone numbers of Subcontractors and material suppliers, indicating by Project Manual Section number Work to be performed by each.
 - a. Provide statement of qualifications for installers when specified in individual Specification Section.
 - 2. Include only products included in the original Bidding Documents, Addenda, and other Modifications.

1.05 PRODUCT DATA, SHOP DRAWINGS, AND SAMPLE REVIEW PROCEDURES

- A. Submit Product Data, Shop Drawings, and Samples in a timely manner in accordance with the Submittal Schedule, and with allowance for resubmittal time as required to meet the Submittal Schedule, and with allowance for resubmittal time as required to meet the Construction Schedule.
- B. Locate on each submittal where practical, the following.
 - 1. Date of submission and dates of any previous submission.
 - 2. Project title.
 - 3. Names of Contractor, subcontractor, supplier, and manufacturer.
 - 4. Identification of product with reference to Project Manual Section number.
 - 5. Reference to Drawing number(s).
 - 6. Field measurements, clearly identified as such.
 - 7. Relation to adjacent or critical features or the Work or materials.
 - 8. Applicable reference standards included in Project Manual individual specification Sections, such as ASTM.
 - 9. Identification of deviations from Contract Documents.
 - 10. Identification of revisions on resubmittals.
 - 11. Ample blank space for Contractor's, Architect's, and Architect's consultant review stamps.
- C. Submittals which Architect determines to be incomplete will be "REJECTED".
- D. Submittals will be reviewed in the sequence received by Architect.
- E. After completion of review, distribute copies of Submittals to Project Site file and other concerned persons. Instruct recipients to promptly report any inability to comply with provisions.
- F. Review by Architect or Architect's consultants is not an authorization for Change Order.
- G. Submittals not requested by individual Sections of Project Manual, or not requested by Architect, will not be recognized or processed by Architect.

1.06 CONTRACTOR'S RESPONSIBILITIES FOR SUBMITTALS.

- A. Review and approve Product Data, Shop Drawings, Samples, and other Submittals prior to submitting to Architect.
 - 1. Contractor shall affix Contractor's review stamp which shall be signed and dated, indicating compliance with Document 00700, Subparagraphs 3.12.5 and 3.12.6.
- B. Determine and verify materials, field measurements, field construction criteria related thereto, and check and coordinate the information contained within submittal with the requirements of the Work and of the Contract Documents.
- C. Inform Architect in writing, at time of submittal, of deviations from the Contract Documents.
- D. Direct specific attention, in writing or on resubmittals, to revisions other than those requested by Architect of previous submittals. Contractor is responsible for review or unrequested revisions that are not specifically directed to the Architect's attention.

- E. Distribute copies of reviewed submittals as appropriate.
 - 1. Instruct parties to promptly report any inability to comply with provisions of reviewed submittals.
- F. Contractor is responsible for all delays caused by improper submittal procedures.
- G. Additional Review Fees:
 - 1. The Architect's review of the Contractor's submittals will be limited to examination of an initial submittal and 1 resubmittal. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for evaluation of such additional submittals.
 - 2. Architect will issue a Change Order in the amount of Architect's additional services.
 - a. Owner will deduct the amount of Architect's additional services from final payment to Contractor.
 - b. Architect's additional review fees will be charged at a rate of \$145.00 per hour with a minimum of 1 hour per submittal.

1.07 PRODUCT DATA

- A. Submit an electronic copy of the submittal to the Architect.
- B. Mark each submittal to indicate the following.
 - 1. Applicable products, model numbers and options.
 - 2. Performance characteristics and capacities.
 - 3. Dimensions and clearances required.
 - 4. Wiring or piping diagrams and controls.
 - 5. Utility or electrical characteristics, electrical requirements, utility connection requirements, and location of utility outlets for service and functional equipment and appliances.
- C. Modify manufacturer's standard schematic drawings and diagrams to delete information not applicable to Work.
- D. Supplement standard data to provide information unique to this Project.

1.08 SHOP DRAWINGS

- A. Submit an electronic copy to the Architect.
- B. Do not reproduce Contract Documents for use as Shop Drawings.
- C. Identify details by reference to sheet number and detail, schedule, or room numbers shown on Contract Drawings.
- D. Identify utility or electrical characteristics, electrical requirements, utility connection requirements, and location of utility outlets for service and functional equipment and appliances.

1.09 SAMPLES

- A. Submit number of Samples specified in individual specification Section, two of which will be retained by Architect.
 - 1. Reviewed samples which may be incorporated in the Work are indicated in individual specification Sections.
- B. Include complete Project identification on each sample.
- C. Submit samples to illustrate functional and aesthetic characteristics of Product, with integral parts and attachment devices.
 - 1. Coordinate sample submittals for interfacing Work.
- D. Submit samples of finishes from full range of manufacturer's standard colors, textures, and patterns for Architect's selection.

1.10 MANUFACTURER'S INSTALLATION INSTRUCTIONS

- A. Submit an electronic copy to the Architect.
- B. When specified in individual specification Sections, submit manufacturer's printed instructions for delivery, storage, handling, assembly, installation, start-up, adjusting, and finishing.
 - 1. Identify special procedures and environmental criteria requirements for application or installation.

1.11 MANUFACTURER'S CERTIFICATES

- A. Submit an electronic copy to the Architect.
- B. When specified in individual specification Sections, submit manufacturer's certificate indicating Product conforms to or exceeds specified requirements.
- C. Certificates may be recent or previous test results on Product, but must be acceptable to Architect.

1.12 TEST REPORTS

- A. Submit an electronic copy to the Architect.
- B. When required by individual specification Sections, submit test reports in accordance with Section 01400.

1.13 CONTRACT CLOSEOUT SUBMITTALS

- A. Refer to Section 01770 for specific requirements.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01400 QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Quality assurance.
 - 2. Contractor's quality control program.
 - 3. Mock-ups and field samples.
 - 4. Manufacturer's field services and reports.
 - 5. Testing and inspection services.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM C31/C31M-95: Standard Practice for Making and Curing Concrete Test Specimens in the Field.
 - 2. ASTM C138-92: Standard Test Method for Weight, yield, and Air Content (Gravimetric) of Concrete.
 - 3. ASTM C143-90a: Standard Test Method for Slump for Hydraulic Cement Concrete.
 - 4. ASTM C173-94ae1: Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
 - 5. ASTM C231-97: Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method.
 - 6. ASTM c1064-86 (1993): Standard Test Method for Temperature of Freshly Mixed Portland Cement Concrete.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Quality Control Submittals:
 - 1. Test reports.
 - 2. Manufacturer's field reports.
 - 3. Contractor's inspection reports.

1.04 QUALITY ASSURANCE

- A. Comply with manufacturer's instructions, including each step in sequence.
 - 1. Should manufacturer's instructions conflict with Contract Documents, request clarification from Architect before proceeding.
 - a. Do not proceed with Work without clear instructions from Architect.
- B. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
 - 1. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
 - a. Do not proceed with Work without clear instructions from Architect.
 - 2. Conform to reference standard by date of issue specified in individual specifications Sections, except where a specific date is established by applicable building code.
 - 3. Obtain copies of standards and maintain at Project Site where required by individual specification Sections.
 - 4. The contractual relationship, duties, and responsibilities of the parties to the contract, nor those of the Architect, shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

- C. Perform Work by persons qualified to produce workmanship of specified quality.
- D. Secure Products in place with possible anchorage devices designed and sized to withstand stresses vibration, physical distortion, and disfigurement.

1.05 CONTRACTOR'S QUALITY CONTROL PROGRAM

- A. Develop and maintain Contractor's Quality Control Program to perform inspections and testing of items of Work, including those of subcontractors, to ensure conformance to Contract Documents.
- B. Provide appropriate facilities, instruments, and testing devices required for performance of Contractor's Quality Control Program.
- C. Maintain quality control over suppliers, manufacturers, Products, services, Site conditions, and workmanship, to produce Work of specified quality.
- D. Ensure quality control procedures apply to manufactured and shop fabricated items.
- E. Inspection Procedures:
 - 1. Ensure materials, Products, and equipment conform to requirements of Contract Documents, and required submittals have been reviewed by Architect as required by Contract Documents.
 - 2. Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion.
 - 3. Do not proceed until unsatisfactory conditions have been corrected.
 - 4. Confirm prior Work has been performed in accordance with requirements of Contract Documents.
- F. Perform quality control inspections on routine basis to ensure continuing compliance with Contract requirements.
- G. Contractor's Inspection Reports: Submit report from each inspector and technician noting observation and recommendations made.
 - 1. Indicate non-conforming items with explanation of cause, proposed remedial action, and corrective action taken.

1.06 MANUFACTURER'S FIELD SERVICES AND REPORTS

- A. When specified in individual specification Section, require material or Product supplier or manufacturers to provide qualified staff personnel to observe Site conditions, conditions or surfaces, installation, quality or workmanship, start-up of equipment, tests, adjustments, and balance of equipment as applicable, and to initiate instructions to Owner when necessary.
- B. Submit qualification of observer to Architect 30 days in advance of required observation.
 - 1. Observer subject to approval of Architect.
- C. Observers shall report to Architect observations, Site decisions, and Site instructions given to installers that are supplemental or contrary to manufacturer's written instructions.
- D. Submit report to Architect, in duplicate, within 10 days of observation.

1.07 TESTING AND INSPECTION SERVICES

- A. Selection and Payment: Contractor shall employ and pay for services of an independent testing agency to perform specified inspections and testing.
- B. Limits of Testing Agency Authority:
 - 1. Testing agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
 - 2. Testing agency may not approve or accept any portion of the Work.
 - 3. Testing agency may not assume any duties of Contractor.
 - 4. Testing agency has no authority to stop the Work.
- C. Testing Agency Duties:
 - 1. Cooperate with Architect and Contractor in performance of services.
 - 2. Provide qualified personnel after due notice.
 - 3. Perform specified tests, inspections, and sampling.

4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 5. Promptly notify parties performing the Work, Architect, and Contractor of observed irregularities, deficiencies, or non-conformance of Work or materials.
 6. Perform additional inspections and tests required by Architect.
 7. After each inspection and test, promptly submit an electronic copy of testing agency report to Architect and Contractor.
 - a. Include in each report the following:
 - 1) Date of issue.
 - 2) Project title.
 - 3) Testing agency name, address and telephone number.
 - 4) Name and signature of inspector.
 - 5) Date and time of sampling, testing, or inspection.
 - 6) Identification of specification Section and Product.
 - 7) Temperature and weather conditions.
 - 8) Location of sample or test in the Work.
 - 9) Type of inspection or test.
 - 10) Date of test.
 - 11) Results of test.
 - 12) Conformance or non-conformance with contract Documents.
 - b. When requested by Architect, provide interpretation of test result.
- D. Contractor's Responsibility:
1. Contractor shall arrange and pay for tests and inspections not specifically indicated in this Section to be paid for by Contractor, plus the following.
 - a. Tests and inspections of materials, Products, or equipment to certify compliance with Contract Documents, before incorporation into the Work.
 - 1) Design preliminary mixes required by Contract Documents for asphalt, concrete, masonry and other mixes or materials which require control by a testing laboratory.
 - 2) Tests required to establish acceptability of imported soil materials.
 - b. Additional tests, samples, inspections, or engineering services the Contractor determines appropriate for the performance of the Work, or for the Contractor's convenience.
 - c. Tests, inspections, or laboratory services necessary with respect to substitutions.
 - d. Additional tests or inspections when initial test or inspection indicates Work does not comply with Contract Documents.
 - 1) Owner will deduct the cost for retesting or reinspection from Contractor's Application for Payment by means of a Change Order.
 - e. Tests or inspections required by public authorities as part of permits and inspection fees, except for "Special Inspections" required by the authority having jurisdiction.
 - f. Other tests or inspections indicated to be by Contractor.
 2. Cooperate with testing agency personnel.
 3. Secure and deliver to testing agency, adequate quantities of representational samples of materials proposed to be used which require testing.
 4. Furnish incidental labor and facilities to provide access to Work to be tested, to obtain and handle samples at Project Site or at source of Products to be tested, and to facilitate tests, inspections, and storage and curing of test samples.
 5. Notify Architect and testing agency 24 hours prior to time for operations requiring inspection and testing services.

6. Arrange with testing agency and pay for additional tests, inspections, and samples required by Contractor beyond specified requirement which are indicated to be paid for by Owner.

1.08 SCHEDULE OF INSPECTIONS AND TESTS PAID FOR BY CONTRACTOR

- A. Construction Services: Contractor's testing agency will provide tests, inspections, and field services during construction, including, but not limited to the following.
 1. Section 02755:
 - a. Sampling and testing of concrete specified in ACI 301 Sections 16.3, 16.4, and as follows:
 - 1) Slump, ASTM C143: 1 per each set of compressive cylinders.
 - 2) Air content, ASTM C173: 1 per every 50 cubic yards, or portion thereof.
 - 3) Unit weight, ASTM C138: 1 per every 50 cubic yard, or portion thereof.
 - 4) Concrete temperature, ASTM C1064: 1 measurement for every slump test.
 - 5) Casting of compressive cylinders, ASTM C39: 1 set of 4 cylinders for every 50 cubic yards, or portion thereof.
 - 6) Concrete delivery: Check batch ticket from every truck.
 - 7) Batch plant inspection: Random basis as determined by Architect.
 2. Section 03100:
 - a. Inspection of formwork dimensions and elevations.
 3. Section 03200:
 - a. Inspection of steel reinforcement immediately prior to placement of concrete.
 4. Section 03300:
 - a. Sampling and testing of concrete specified in ACI 301 Sections 16.3, 16.4, and as follows:
 - 1) Slump, ASTM C143: 1 per each set of compressive cylinders.
 - 2) Air content, ASTM C173 volumetric method for lightweight or normal weight concrete: 1 per every 50 cubic yards, or portion thereof.
 - 3) Air content, ASTM C231 pressure method for normal weight concrete: 1 per every 50 cubic yards, or portion thereof.
 - 4) Unit weight, ASTM c138: 1 per every 50 cubic yards, or portion thereof.
 - 5) Concrete temperature ASTM c1064: 1 measurement for every slump test.
 - 6) Casting of compressive cylinders ASTM C31: 1 set of 4 cylinders for every 50 cubic yards, or portion thereof.
 - 7) Concrete delivery: Check batch ticket from every truck.
 - 8) Batch plant inspection: Random basis as determined by Architect.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

21022 Riley County Fire District #1
SECTION 01400 – QUALITY REQUIREMENTS

SECTION 01500 TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Temporary utilities.
 - 2. Temporary barriers, enclosures, and security.
 - 3. Temporary controls.
 - 4. Protection of existing plant life.
 - 5. Protection of installed Work.
 - 6. Parking.
 - 7. Project identification.
 - 8. Progress cleaning.
 - 9. Removal of utilities, facilities, and controls.
- B. Related Sections:
 - 1. Section 01770 – Contract Closeout: Final cleaning.

1.02 TEMPORARY UTILITIES

- A. Existing Utilities: Provide protection to prevent damage or interference to existing utilities. In the even of accidental interruption of a service or utility, inform Owner and related utility company without delay, and take prompt remedial action.
- B. Temporary Water: Contractor shall provide his own water. There is no water available.
- C. Temporary Sanitary Facilities:
 - 1. Provide and maintain adequate chemical toilet facilities.
 - 2. Provide drinking water from an approved source.
- D. Temporary Fire Protection: Provide and maintain fire fighting equipment for the duration of construction in accordance with the requirements of local authorities and subject to approval of Owner's insurance carries.
- E. Temporary Electricity:
 - 1. Contractor shall provide temporary power.
 - a. Contractor will pay cost of electricity used.
 - 2. Provide flexible power cords as required.
- F. Temporary Lighting:
 - 1. Provide and maintain lighting for construction operations to achieve not less than 2 watts per square foot of illumination.

1.03 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual Section of Project manual.
- B. Provide temporary and removable protection for installed Products.
 - 1. Control activity in immediate work area to minimize damage.
- C. Provide coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects.
- E. Prohibit traffic and storage upon waterproofed or roofed surfaces.
 - 1. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing manufacturer.
- F. Prohibit traffic upon landscaped areas.

1.04 PARKING

- A. Arrange for surface parking areas to accommodate construction personnel.
 - 1. When Site space is not adequate, provide additional off Site parking.

1.05 PROJECT IDENTIFICATION

- A. No signs will be allowed on the Project Site except those required by law or ordinance for safety, traffic control, and protection of persons and property, and those signs specified in this Section.

PART 2 PRODUCTS**2.01 MATERIALS**

- A. Materials may be new or used, but must be adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements or applicable codes and standards.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish.
 - 1. Maintain Site in a clean and orderly condition.

3.03 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary above grade or buried utilities, equipment, facilities, and materials prior to Substantial Completion.
- B. Clean and repair damage caused by installation and use of temporary work.
- C. Restore existing facilities used during construction to their original condition.
- D. Restore permanent facilities used during construction to their specified condition.

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01610 BASIC PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Manufacturer's instructions.
 - 2. Transportation and handling.
 - 3. Storage and protection.
 - 4. Existing utilities and services.
 - 5. Integrity of fire, sound, and weatherproof assemblies.

1.02 MANUFACTURER'S INSTRUCTION

- A. When Contract Documents require that installation of Work shall comply with manufacturer's recommended instructions, submit instructions in accordance with Section 01330, and distribute copies to parties involved in installation.
- B. Perform Work in accordance with manufacturer's instructions. Do not omit any preparatory step or installation procedure.
 - 1. Should a conflict exist between Project conditions or specified requirements and manufacturer's installations, consult Architect before proceeding with Work.
 - a. Do not proceed with Work without clear instructions from Architect.

1.03 TRANSPORTATION AND HANDLING

- A. Transport and handle Products and equipment in accordance with manufacturer's instructions.
- B. Arrange deliveries of Products and equipment in accordance with Project Construction Schedule.
 - 1. Coordinate to avoid conflict with Work and conditions at site.
 - 2. Immediately upon delivery, inspect shipments to assure compliance with Contract Documents and reviewed Submittals, and that Products and equipment are undamaged.
- C. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage to products or packaging.

1.04 STORAGE AND PROTECTION

- A. Store and protect Products and equipment in accordance with manufacturer's instructions, with seals and labels intact and legible.
- B. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.
- C. Store Products and equipment subject to damage by the elements in weathertight enclosures.
 - 1. Maintain temperature and humidity within the ranges required by manufacturer's instruction.
- D. Exterior Storage:
 - 1. Store fabricated Products above ground, on blocking or skids.
 - 2. Cover Products subject to deterioration with impervious sheet covering.
 - a. Provide adequate ventilation to avoid condensation or potential degradation of Product.
 - 3. Store loose granular materials on solid flat surfaces in well-drained area.
 - a. Prevent mixing with foreign matter.
- E. Provide equipment and personnel to store Products and equipment by methods to prevent soiling, disfigurement, or damage to Product of packaging.

- F. Arrange storage of Products and equipment to allow access by Architect for inspection and verification.
 - 1. Periodically inspect to assure Products are undamaged and are maintained under required and specified conditions.
- G. Provide substantial coverings to protect installed Products from damage caused by traffic and subsequent construction operations.

1.05 EXISTING UTILITIES AND SERVICES

- A. Provide protection to prevent damage or interference to existing utilities, service lines and mains.
- B. In case of damage to any utility or service lines or mains, repair or cause to be repaired as required by the utility or service owner, at no increase in Contract Sum or extension in contract Time.
- C. In the event unknown utilities or services are discovered, stop Work in the effected area and notify Owner, Architect, and utility or service company to obtain information on how to proceed.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01620 PRODUCT OPTIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Products.
 - 2. Product selection procedures.
 - 3. Base bid.
- B. Related Sections:
 - 1. Section 01630 – Product Substitution Procedures.

1.02 PRODUCT

- A. Definition: Products means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying, and installation of the Work.
 - 1. Products may also include existing materials or components required to be reused.
- B. Standard of Quality: The specified manufacturers, materials, products and equipment have been used in preparing the Contract Documents, and thus establish minimum standard of required function, dimension, appearance, and quality for performance and appropriateness.
- C. Provide interchangeable components of the same manufacturer for similar components.

1.03 PRODUCT SELECTION PROCEDURES

- A. Product selection is governed by Contract Document, not by previous experience or tradition.
- B. Reference Standard Specification: Where products or materials are specified only by reference standard, provide any product meeting that standard.
 - 1. If reference standard is followed by a description of materials, special features, or performance criteria, make necessary modification to “Standard or custom products” to fully comply with the description of materials, special features, or performance criteria specified.
- C. Descriptive Specifications: Where products, materials, or equipment are specified by indicating a detailed description of the required properties, minimum attributes, special features, or performance criteria, provide any product meeting that description.
 - 1. If descriptive specification is followed by a list of acceptable manufacturers or acceptable manufacturer and products, select product from only those manufacturers and products.
 - a. If manufacturer’s standard product is listed, and it does not comply with the minimum description indicated, make necessary modifications to “standard or custom products” to fully comply with the required properties, minimum attributes, special features, or performance criteria specified.
 - 2. If a list of specified manufactures includes the statement “Comparable products of other specified manufacturers”, select product only from those manufacturers specified in that Section of the Contract Documents complying with the required properties, minimum attributes, special features and performance criteria specified.
 - 3. If a list of specified manufacturers includes the statement “Comparable products of other manufactures”, select product from any manufacturer complying with the required properties, minimum attributes, special features, and performance criteria specified.

- D. Proprietary Specifications: Where products, materials, or equipment are specified by specific manufacturer's name, model number, type designation, or other unique characteristics, provide only products specified in the Contract Documents.
 - 1. When indicated in individual specification Sections as "no substitutions", provide only the specific named product. Substitutions will not be considered.
- E. When indicated in individual specification Section, the design layout, space allocation, connection details, and other requirements are based on proprietary products of a specific manufacturer so identified under PART 2 of that Section.
 - 1. Other manufacturers, even if specified as acceptable, shall comply with the minimum levels of material, detailing and dimensional restrictions established for the proprietary product, even if these levels are not indicated in the Contract Documents.

1.04 BASE BID

- A. The phrase "or equal" is not used in the Contract Documents and is not implied.
 - 1. Request for substitution and product options shall be made in accordance with the procedures specified in Section 01630.
- B. It is understood and agreed by bidders, Contractors, subcontractors, and material suppliers that bids and contracts shall be based on products exactly as specified in the Contract Documents.
- C. Base Bid Condition: Bids and Contract shall be based upon materials, products, and equipment described in the Bidding Documents. Where additional products or manufacturers are incorporated by Addenda, Contractor is responsible for coordinating and paying for any necessary changes to the Work required to incorporate additional products, including any cost of Architect or Architect's consultants services to coordinate and modify Contract Documents as a result of that change.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01630 PRODUCT SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Pre-bid substitutions
 - 2. Post-bid substitutions.
- B. Related Documents:
 - 1. Document 00200 – Instructions to Bidders
 - 2. Document 00210 – Supplementary Instructions to Bidders

1.02 PRE-BID SUBSTITUTIONS

- A. Submit emailed request to Architect not less than 10 days prior to the date scheduled for receipt of bids.
 - 1. Request submitted by fax, phone, or mail transmission will not be considered.
- B. Materials, products, and equipment described in Contract Documents establish a minimum standard of required function, dimension, appearance, and quality to be met by any proposed substitution.
- C. Substitution will be considered if each request includes the following.
 - 1. Identification of specification Section number, Paragraph number, and name and description of specified material, product, or equipment for which substitution is requested.
 - 2. Complete description of the proposed substitute including product data, drawings, samples, performance and test data, and other information necessary for an evaluation by the Architect.
 - a. Include items specifically required as Submittals in individual specification Sections.
 - b. Substitution request not including sufficient information necessary for an evaluation by the Architect will not be approved, nor will Architect contact entity requesting substitution in order to obtain additional information.
 - 3. Description of changes to the Contract Documents which proposed substitute will require for its proper installation.
- D. The burden of proof of the merit of the proposed substitution is upon the proposer.
- E. A request for substitution constitutes a representation of the following.
 - 1. Bidder has investigated proposed substitute and determined that it meets or exceeds the quality level of specified Product.
 - 2. Bidder will pay for changes to the building design, including engineering design, detailing and construction cost caused by the use of proposed substitute.
 - 3. Bidder has determined that proposed substitute will have no adverse affect on the Work of other Sections, the Project Construction Schedule, or specified warranty requirements.
 - 4. Bidder will coordinate installation and make other changes which may be required for Work to be complete in all respects, with no additional cost to others.
 - 5. Bidder waives claims for additional cost or time extensions which may subsequently become apparent.
 - 6. Bidder has determined that maintenance and repair parts will be locally available for proposed substitute.
- F. If Architect approves a proposed substitution, such approval will be set forth in an Addendum. Bidders shall not rely on acceptances or approvals made in any other manner.
 - 1. No notification will be issued of proposed substitutions not approved by Architect.

- G. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

1.03 POST-BID SUBSTITUTIONS

- A. Post-bid substitutions of specified Products are not allowed.
1. Should a product not be available or have a considerable lead time, substitutions may be considered by Architect. Procedures shall follow those outlined in this Section.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01725 FIELD ENGINEERING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Submittal requirements.
 - 2. Surveyor's qualifications.
 - 3. Contractor's responsibility for survey and field engineering.

1.02 SUBMITTALS

- A. Quality Control Submittals: Submit in accordance with Section 01330.
 - 1. Statement of surveyor's qualifications.

1.03 QUALITY ASSURANCE

- A. Surveyor's Qualifications: Licensed in the state in which Project is located as either a registered land surveyor or a registered professional civil engineer, having performed similar duties in size and complexity as required for this Project.

1.04 CONTRACTOR'S RESPONSIBILITIES

- A. Contractor will provide construction staking.

1.05 CONTRACTOR'S RESPONSIBILITIES

- A. Provide field engineering and layout services for completion of Work.
- B. Employ Land Surveyor to perform field engineering and layout services required for completion of Work including but not limited to the following.
 - 1. Protect survey control points prior to starting site Work, and preserve permanent reference points during construction.
 - 2. Establish elevations, lines, and levels using recognized engineering survey practices.
 - a. Locate and lay out by instrumentation and similar appropriate means, the following.
 - 1) Site improvements including pavements, grading, fill, topsoil placement, utility locations, utility slopes, and utility invert elevations.
 - 2) Control grid lines or axis for structures.
 - 3) Building foundations, column locations, and floor elevations.
 - 4) Corners and reference points for structure.
 - 3. Replace monuments, property corners, or reference points disturbed or destroyed.
- C. Contractor shall locate and protect survey control and reference points.
- D. Promptly report to Owner loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. Design shoring, forms, and similar items provided by Contractor as part of Contractor's means and methods of construction.
 - 1. Design shall comply with local codes.
 - 2. Where required by jurisdiction or local authorities, provide certified drawings for authority requesting data.
- F. Verify existing levels indicated are correct.
 - 1. Notify Owner in writing of such discrepancies 24 hours to proceeding.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 01770 CLOSEOUT PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Closeout procedures
 - 2. Final cleaning.
 - 3. Contractor closeout submittals
 - 4. Project record documents.
 - 5. Operating and maintenance manuals.
 - 6. Warranties.
 - 7. Spare parts and maintenance materials.
- B. Related Sections:
 - 1. Document 00700 – General Conditions.
 - 2. Document 00800 – Supplementary Conditions.

1.02 CLOSEOUT PROCEDURES

- A. Comply with the requirements of Document 00700, Paragraph 9.8.
 - 1. Contractor shall prepare and submit, list of items to be completed or corrected as specified in Document 00700, Paragraph 9.8.
- B. When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect the following.
 - 1. Written notice of the following.
 - a. Contract Documents have been reviewed.
 - b. Work has been inspected by Contractor for compliance with Contract Documents.
 - c. Work has been completed in accordance with Contract Documents.
 - d. Equipment and systems have been tested in the presence of Owner's representatives, and are operational.
 - e. Work is completed and ready for final Inspection by Architect.
 - 2. A comprehensive list of items to be completed or corrected.
 - a. The Contractor shall proceed promptly to complete and correct items on the list.
 - 1) Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.
- C. Upon receipt of the Contractor's comprehensive list of items to be completed or corrected, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete.
 - 1. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect.
 - 2. Should Architect determine Work is incomplete or defective, Architect will notify Contractor in writing listing incomplete and defective Work.
 - 3. Contractor shall, within 10 days of date of Architect's list, submit written request for any clarifications Contractor may require of Architect's list of incomplete or defective Work.
 - 4. Contractor shall immediately remedy the incomplete and defective Work.

5. Contractor shall submit written notice that corrected Work is complete.
- D. The Contractor shall then submit a written request for another inspection by the Architect to determine Substantial Completion.
 1. When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate.
 2. Warranties required by the Contract Documents shall commence on the Date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.
- E. Except with the consent of the Owner, the Architect will perform no more than 2 inspections to determine whether the Work or a designated portion thereof has attained Substantial Completion in accordance with the Contract Documents.
 1. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional inspections.
 - a. Cost of the Architect's additional services will be calculated in accordance with the hourly rates included in the Agreement Between Owner and Architect.
 - b. Architect will issue a deduct Change Order in the amount of Architect's additional services.
 - c. Owner will deduct the amount of Architect's additional services from final payment to Contractor.
- F. The Certificate of Substantial Completion will be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate.
- G. Upon receipt of written notice from the Contractor that the Work is ready for final inspection and acceptance, and upon receipt of a final Application for Payment, the Architect will make such inspection.
 1. Should Architect determine Work is incomplete or defective, Architect will notify Contractor in writing listing incomplete and defective Work.
 - a. Contractor shall, within 10 days of date of Architect's list, submit written request for any clarifications Contractor may require of Architect's list of incomplete or defective Work.
 - b. Contractor shall immediately remedy the incomplete and defective Work.
 - c. Contractor shall submit written notice that corrected Work is complete.
 2. The Contractor shall then submit a written request for another inspection by the Architect to determine final completion of the Work.
- H. Except with the consent of the Owner, the Architect will perform no more than 2 inspections to determine whether the Work or a designated portion thereof has attained Final Completion in accordance with the Contract Documents. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional inspections.
 1. The Owner will be entitled to deduct from the Contract Sum amounts paid to the Architect for any additional inspections.
 - a. Cost of the Architect's additional services will be calculated in accordance with the hourly rates included in the Agreement Between Owner and Architect.
 - b. Architect will issue a deduct Change Order in the amount of Architect's additional services.
 - c. Owner will deduct the amount of Architect's additional services from final payment to Contractor.

1.03 FINAL CLEANING

- A. Complete prior to Substantial Completion
- B. Remove temporary protective coatings, barriers, and labels not required to remain.
- C. Clean finishes free of dust, stains, films, and other foreign substances.
- D. Clean and polish transparent materials, including mirrors, polished metal, and interior and exterior glass.
- E. Sweep and damp mop resilient and hard floor surfaces, including exposed concrete floors.
- F. Clean waste and debris from service areas, roofs, gutters, downspouts, drainage systems, areaways, plenums, shafts, trenches, equipment vaults, manholes, and other areas.
- G. Remove waste and surplus materials, rubbish, and construction facilities from Site.
- H. Maintain Work in clean condition until Architect certifies Substantial Completion.

1.04 CONTRACTOR'S CLOSEOUT SUBMITTALS

- A. When Contractor considers Work is complete, Contractor shall submit the following prior to inspection of completed Work by Architect as described above.
 - 1. Project Record Documents.
 - 2. Operating and Maintenance Manuals.
- B. When Architect has determined Work is acceptable under the Contract Documents, and the Contract fully performed, prior to issuance the final Certificate for Payment by the Architect, the Contractor shall submit the following.
 - 1. American Institute of Architect (AIA) Document G706 Contractor's Affidavit of Payment of Debts and Claims.
 - 2. AIA Document G706A Contractor's Affidavit of Release of Liens.
 - 3. Contractor's releases and waivers of liens, claims, security interest or encumbrances arising out of the Contract, for full amount of Contract Sum.
 - 4. Releases and waivers of liens, claims, security interest or encumbrances arising out of the Contract, for one hundred percent of contract involved for such releases and waivers from each Subcontractor, sub-subcontractor and material equipment suppliers who have furnished materials for the Work under contract with the Contractor, Subcontractors, or sub-subcontractors.
 - 5. AIA Document G707 Consent of Surety Company to Final Payment.
 - 6. Evidence of compliance with requirements of governing authorities, including but not limited to the following.
 - a. Certificate of occupancy.
 - b. Certificates of inspection from all required agencies and departments having jurisdiction.
 - 7. Warranties.
 - 8. Contractor's certificate stating that no materials containing asbestos have been incorporated into the Work.

1.05 PROJECT RECORD DOCUMENTS

- A. Maintain at Project Site, or with digital access, 1 set of the following documents to record actual construction conditions concurrent with construction progress.
 - 1. Project Manual.
 - 2. Drawings.
 - 3. Addenda.
 - 4. Construction Change Directives.
 - 5. Change Orders.
 - 6. Architect's Supplemental Instructions, and other written instructions.
 - 7. Other Modifications to Contract Documents.
 - 8. Reviewed submittals.
- B. Store record documents separate from documents used for construction.

- C. Format for Project Record Documents:
 - 1. Delete or line out Architect's and Engineers' seals.
 - 2. Legibly identify Contractor's name, address, and telephone number on each document.
 - a. Contractor's project superintendent shall sign and date documents.
 - 3. Project Manual: Addenda, Change Orders, Architect's Supplemental Instructions, other Modifications, and other 8 ½ inch by 11 inch data shall be combined digitally and provided on a thumb drive. Each item shall be identified on with Project Identification.
 - a. Legibly mark to record actual Products installed, including manufacturers name and products model and number, suppliers of each Product, and revisions to execution procedures.
 - 4. Drawings: Legibly mark revisions and actual construction conditions including the following.
 - a. Measured depths of elements of foundations in relation to finish first floor datum.
 - b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent and visible features of the Work or surface improvements.
 - c. Measured location of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of the Work.
 - d. Field changes of dimensions and detail.
 - e. Changes made by Modifications.
 - f. Details not on original Contract Drawings.
- D. Record information on Record Documents concurrent with construction progress.
- E. Submit Record Documents 2 weeks prior to date Contractor considers Work to be complete.

1.06 OPERATING AND MAINTENANCE MANUALS

- A. Operating and Maintenance Manuals shall consist of required data electronically transmitted and stored on thumb drive to be given to the Owner.
 - 1. Thumb drive and file names shall clearly be labeled with "OPERATING AND MAINTENANCE MANUALS", Project identification, and subject matter.
 - 2. File structure shall be such that file types are grouped in digital folders as outlined below:
- C. Contents:
 - 1. Directory: List names, addresses, and telephone numbers of Architect, Architect's consultants, Contractor, subcontractor, sub-subcontractors, and major material suppliers.
 - 2. Operation and maintenance instructions: Arrange by system and subdivide by Project Manual Section number. For each category, identify the following.
 - a. Names, addresses, and telephone numbers of subcontractors, sub-subcontractors, and suppliers.
 - b. Source of maintenance and repair parts.
 - c. Significant design criteria.
 - d. List of equipment.
 - e. Parts list for each component.
 - f. Operating instructions for equipment and systems.
 - g. Maintenance instructions for equipment and systems.
 - h. Maintenance instructions for special finishes, including recommended cleaning methods for materials, special precautions, and identifying detrimental cleaning agents.
 - 3. Project documents and certificates: Include the following.
 - a. Product data and shop drawings.

- b. Air and water balance reports.
 - c. Certificates.
 - d. Warranties.
- D. Submit Operating and Maintenance Manuals 2 weeks prior to date Contractor considers Work to be complete.

1.07 WARRANTIES

- A. Submit a digital copy on a thumb drive to be given to the Owner. Digital folders shall be organized as follows:
- B. Contents:
 - 1. Provide a table of contents
 - 2. Directory: List names, addresses, and telephone numbers of Architect, Architect's consultants, Contractor, subcontractors, sub-subcontractor's, and Product and equipment supplier.
 - 3. Warranties: Arrange by system and subdivide by Project Manual Section number.
- C. For items of Work delayed beyond Date of Substantial Completion, provide updated warranty within 10 days after acceptance, listing date of acceptance by Architect as start warranty period.

1.08 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Provide Products, spare parts, maintenance materials, and extra materials in quantities specified in individual Project Manual Sections.
- B. Deliver to Project Site and place in location directed by Owner.
 - 1. Obtain receipt from Owner and submit receipt prior to application for final payment.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 02300 EARTHWORK

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Excavation for building foundations.

1.02 REFERENCES

- A. ASTM International (ASTM):
1. ASTM C33-03: Standard Specification for Concrete Aggregates.
 2. ASTM C618-03: Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete.
 3. ASTM D698-00ae1: Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600kN-m/m³)).
 4. ASTM D1556-00: Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
 5. ASTM D2167-94(2001): Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
 6. ASTM D2922-01: Standard Test Methods for Density of Soil and Soil-Aggregate in Placed by Nuclear Methods (Shallow Depth).
 7. ASTM D2937-00e1: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method.
 8. ASTM D3017-01: Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
 9. ASTM D4318-00: Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.

1.03 DEFINITIONS

- A. Borrow: Soil material obtained off-Site when sufficient approved soil material is not available from excavations.
- B. Earth Excavation: Removal of all material not defined as rock.
- C. Excavation: Removal of materials encountered above exposed subgrade elevations, including the reuse or disposal of materials removed.
- D. Exposed Subgrade: Surface or elevation remaining after completion of excavation to required elevations indicated on Drawings and specified under this Section.
- E. Finish Grade: The top surface of sod, or top surface of topsoil where sod is not indicated.
- F. Finished Subgrade: The top surface of a fill or backfill immediately below subbase course, drainage fill, or topsoil materials.
- G. Granular Base: Course of washed, free-draining, granular fill material supporting slab-on-grade placed to cut off upward capillary flow of pore water.
- H. Structures: Buildings, footings, foundations, retaining walls, slabs, curbs, mechanical and electrical appurtenances, and other man-made stationary features constructed above or below ground surface.
- I. Subbase Course: Layer placed between finish subgrade and base course for pavements or sidewalks.
- J. Unauthorized Excavation: Removing materials beyond indicated exposed subgrade elevations or dimensions without direction by Architect or testing agency.
1. Unauthorized excavations, as well as remedial Work directed by Architect or testing agency, shall be the responsibility of the Contractor, with no increase in Contract Sum or extension of Contract Time

1.04 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Contract Closeout Submittals: Submit in accordance with Section 01770.
 - 1. Project Record Documents.
 - a. Accurately record location of underground utilities remaining, rerouted utilities, and new utilities by horizontal dimensions from above grade permanent fixtures, elevations or inverts, and slope gradients.

1.05 QUALITY ASSURANCE

- A. Installer's Qualifications: Firm experienced in installation of systems similar in complexity to those required for this Project, plus the following.
 - 1. Not less than 3 years of experience with systems.
 - 2. Successfully completed not less than 5 comparable scale projects using this system.
- B. Testing Agency: The Contractor shall employ a qualified independent geotechnical engineering testing agency to classify proposed on-Site and borrow soils to verify that soils comply with specified requirements and to perform specified field and laboratory testing.

1.06 PROJECT CONDITIONS

- A. Existing Conditions:
 - 1. Locate existing underground utilities in areas of exactions Work.
 - a. Do not interrupt exiting utilities serving facilities occupied by the Owner or others except when permitted in writing by Architect and then only after acceptable temporary utility services have been provided.
 - b. Provide not less than 72 hours notice to Architect and Owner and receive written authorization to proceed before interrupting any utility.

PART 2 – PRODUCTS**2.01 MATERIALS**

- A. General:
 - 1. Provide approved borrow soil materials from off-Site when sufficient approved soil materials are not available from excavations, at no increase in Contract Sum or extension of Contract Time.
 - 2. Fill and backfill materials shall be subject to the approval of testing agency and Architect.
 - 3. For approval of fill and backfill materials, notify testing agency and Architect at least 5 working days in advance of intention to import material.
 - a. Designate proposed borrow area for the purpose of making acceptance tests to confirm quality of proposed material.
- B. General Fill Material:
 - 1. Definition: That material used to obtain finish subgrade levels at locations specified under this Section.
 - 2. Acceptable material: Excavated on-Site material or off-Site borrow material which is free from debris, organics, decomposable, and corrodible materials, and free from rock larger than 2 inches in any dimension within the upper 36 inches in fill area, and free from rock larger than 24 inches in any dimension in fill areas below a depth of 36 inches below finish grade, containing the proper moisture context, liquid limit, and plasticity index to obtain specified compaction requirements.
 - a. Existing on-Site material proposed for reuse, and off-Site borrow material shall be approved by testing agency.

- C. Low Volume Change Material:
 - 1. Definition: That material used to obtain the upper 24 inches of finish subgrade beneath granular base in building areas, and material used as trench backfill material in building areas.
 - 2. Acceptable material:
 - a. Excavated on-Site material or off-Site borrow material which is free from debris, organics, decomposable, and corrodible materials with a liquid limit of less than 45 percent as determined in accordance with wet preparation procedures outlined in ASTM D4318, a plasticity index of less than 21 percent and containing the proper moisture content to obtain specified compaction requirements.
 - 1) Existing on-Site material proposed for reuse, and off-Site borrow material shall be approved by testing agency.
 - b. Excavated on-Site of off-Site borrow high plasticity clay material blended with lime or ASTM C618 Class C fly ash to produce a low volume change material.
 - 1) Clay and shale materials shall be pulverized into pieces having a maximum size of no more than 2 inches in any direction.
 - 2) Blending rate shall be approved by testing agency, with estimated rates as follows.
 - a) Fly ash: 14 to 16 percent on a dry weight basis
 - 3) Blending procedures shall be as directed by testing agency.
- D. Granular Fill:
 - 1. Definition: Free-draining granular base used beneath building slabs-on-grade and used as backfill behind foundation and retaining walls.
 - 2. Acceptable materials: Clean crushed stone or gravel, free of Shale, clay friable material, and debris, complying with ASTM C33 Size No. 57.
- E. Backfill Material:
 - 1. Definition: Material requiring placement and compaction with manual procedures because of restricted spaces or new construction.
 - 2. Acceptable materials: Either General Fill Material, Granular Fill Material, or other materials specified under this Section at locations specified or indicated on Drawings.
- F. Unsuitable Material:
 - 1. Definition: That excavated material which does not meet the consistency requirements of any other defined materials in this Section, including muck, frozen material, organic material, top soil, rubbish, and rock within the limits defined for General Fill Material.
 - 2. Dispose of unsuitable material off-Site, at no increase in Contract Sum or extension of Contract Time.
 - a. Submit an acceptable agreement with the property owner on whose property the unsuitable material is placed.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Verify location and elevations of existing underground utilities.
 - 2. Verify erosion control systems are in place.
 - 3. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protection:
 - 1. Protect trees, shrubs, lawns, other plant growth, and other features indicated on Drawings to remain.
 - 2. Protect bench marks, monuments, existing structures, existing fences, existing roads, existing sidewalks, existing paving, and existing curbs from damage caused by settlement, lateral movement, undermining, washout, and other hazards caused by Work of this Section.
 - a. If damaged or displaced, notify Architect and correct defects as directed by Architect.
 - 3. Protect above and below grade utilities which are to remain.
 - 4. Protect adjacent and downstream properties from pollution, sedimentation, or erosion caused by the Work of this Contract.
- B. Preparation:
 - 1. Use all means necessary to control dust on and near the Work, and on and near off-Site borrow, storage, and spoil areas, if such dust is caused by performance of the Work of this Section, or if resulting from the condition in which Project Site is left by Contractor.
 - 2. Moisten surfaces as required to prevent dust from being a nuisance to the public, neighbors, and concurrent performance of other Work on Project Site.
 - 3. Identify required lines, levels, contours, and datum.
 - 4. Identify above and below grade utilities.
 - 5. Provide and maintain positive surface drainage.
 - 6. Prepare soil as outlined in Geo-technical Reports included as part of the Contract Documents attached at the end of this section.

3.03 WATER CONTROL

- A. Provide berms or channels to prevent flooding of subgrades.
- B. Prevent infiltration of water into excavations from whatever sources as may exist.
- C. Prevent ponding of water on finish subgrades.
- D. Protect subgrades and foundation soils from softening and damage by rain or water accumulation.
- E. Prevent flooding of Project Site and surrounding areas.
- F. Promptly remove water collecting in depressions.
 - 1. Provide and maintain ample means and devices with which to remove and dispose of water entering excavation.
 - 2. Ensure dry excavations and preservation of final lines and grades of bottoms of excavations.

3.04 EXCAVATION

- A. Use of explosives is not permitted.
- B. Excavation is unclassified and includes excavation to required exposed subgrade elevations regardless of the character of surface and subsurface conditions encountered, including rock, soil materials, debris, and other obstructions.
- C. Perform excavation to the lines and grades indicated on Drawings within a tolerance of 0.10 foot.
 - 1. Extend excavations a sufficient distance from structures for placing and removing concrete formwork, installing services and other construction, and for inspections.
- D. Perform excavation Work in compliance with applicable requirements of authorities having jurisdiction, including United States Department of Labor, Occupational Safety and Health Administration (OSHA) "Construction Standards for Excavations, 29 CFR Part 1926".

- E. Perform Work in a manner and sequence that will provide drainage at all times and that will prevent surface water from draining into excavations.
- F. Protect subgrades and foundation soils against freezing temperatures and frost.
 - 1. Provide protective insulation materials as necessary.
- G. When excavating through roots, perform Work by hand cutting roots with sharp axe.
- H. Excavation cut shall not interfere with normal 45 degree bearing splay of foundations.
- I. Hand trim excavations.
 - 1. Remove loose matter.
- J. Excavation for Footings and Foundations:
 - 1. Do not disturb bottom of excavation.
 - a. Excavate by hand to final grade immediately prior to placement of concrete reinforcement.
 - b. Trim bottom of excavations to required lines and grades to leave solid base to receive other Work.
 - 2. Drill probe holes at exposed bottom of excavations as directed by testing agency.
- K. When exposed subgrade materials are encountered which testing agency determines to be unacceptable for use, remove such material to depths and limits determined by testing agency.
 - 1. Backfill with material acceptable to testing agency and compact to density equal to the specified requirements for subsequent fill material.
 - 2. Removal and replacement of unacceptable material will be paid on basis of Unit Prices included in the Contract Documents.
- L. Where depressions result from, or have resulted from the removal of surface or subsurface obstructions, open depressions to equipment working width, and remove debris and soft material as directed by testing agency, at no increase in Contract Sum or extension of Contract Time.
 - 1. Backfill with material acceptable to testing agency and compact to density equal to the specified requirements for subsequent fill material, at no increase in Contract Sum or extension of Contract Time.
- M. Backfill and compact over-excavations and unauthorized excavations as specified for the area at which it occurs, at no increase in Contract Sum or extension of Contract Time.
 - 1. Backfill with material acceptable to testing agency and compact to density equal to the specified requirements for subsequent fill material, at no increase in Contract Sum or extension of Contract Time.
- N. Stockpile excavation material which testing agency has approved for reuse.
 - 1. Stockpile soil materials without intermixing soil materials with different consistencies and graduations.
 - 2. Place, grade, and shape stockpiles to drain surface water.
 - 3. Do not stockpile within drip line of trees which are to remain.
 - 4. Cover stockpiles to prevent wind-blown dust.
- O. Remove unacceptable excavation material from Site at no increase in Contract Sum or extension of Contract Time.
 - 1. Submit an acceptable agreement with the property owner on whose property the unsuitable material is placed.

3.05 PROTECTION

- A. Protect newly graded areas from freezing and erosion.
- B. Repair and reestablish grades in settled, eroded, and rutted areas to specified tolerance.
- C. Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, and compact to required density prior to further construction.
 - 1. Testing agency shall be present during compaction of material.

END OF SECTION



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32.d

**GEOTECHNICAL ENGINEERING REPORT
RILEY COUNTY FIRE DISTRICT 1
UNIVERSITY PARK
LAKEVIEW DRIVE AND HI VIEW DRIVE
MANHATTAN, KANSAS**

Prepared For:

ANDERSON KNIGHT ARCHITECTS LLC
2505 Anderson Avenue, Suite 201
Manhattan, Kansas 66502

Prepared By:

KAW VALLEY ENGINEERING, INC.
14700 West 114th Terrace
Lenexa, Kansas 66215

June 11, 2021

Project No. **C21G0922**

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)



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June 11, 2021

C21G0922

Mr. Dan Knight
Anderson Knight Architects LLC
2505 Anderson Avenue, Suite 201
Manhattan, Kansas 66502

**RE: GEOTECHNICAL ENGINEERING REPORT
RILEY COUNTY FIRE DISTRICT 1
UNIVERSITY PARK
LAKEVIEW DRIVE AND HI VIEW DRIVE
MANHATTAN, KANSAS**

Dear Mr. Knight:

This report presents the results of a subsurface exploration and geotechnical engineering analysis conducted for the referenced project. This exploration was conducted in general accordance with our proposal dated March 3, 2021. Authorization to proceed with geotechnical services for this site was provided on April 4, 2021. The purpose of this study was to determine subsurface conditions at the site and to develop geotechnical parameters related to design and construction of the project.

EXECUTIVE SUMMARY

Information, conclusions, and recommendations, which in our opinion are significant to the design and construction of this project, are provided below. Additional details, the general subsurface profile, other related items, and general information regarding the various phases of our exploration are included in the main body of the report.

Typical subsurface conditions include undisturbed lean (low plasticity) clays overlying limestone bedrock. Limestone bedrock was encountered at depths of 1.0 and 1.5 feet. On the basis of the anticipated finish floor elevation being just above existing grade, KVE recommends the building be supported upon shallow footings bearing entirely upon the underlying limestone bedrock. A net allowable bearing pressure of 5,000 pounds per square foot (psf) may be used to design and proportion footings for the building.

PROJECT AND SITE DESCRIPTION

The proposed project is to include the construction of a new building. The new building is to be located on the southwest side of Lakeview Drive approximately 250 feet northwest of Hi View Drive in Manhattan Kansas. The building is planned to be a 40 by 50 foot pre-engineered metal building. The anticipated finish floor elevation is to be near existing grade. Wall and column loads

are assumed to be less than 3 kips per linear foot and 50 kips, respectively. The site is presently covered by a grass field. The project area descends slightly to the northwest with 2 feet of elevation variation between the borings. The site and surrounding area are displayed on Plate 1.

FIELD EXPLORATION

The field exploration was performed on May 22, 2021 and included drilling two test borings identified as Borings B-1 and B-2. Boring locations were estimated from existing surface features. The boring elevations were determined by differential levelling utilizing HCP #500 as a benchmark at an elevation of 1297.3 feet. The boring locations and elevations are displayed on Plate 1 and the logs of the borings, respectively.

The borings were drilled using an ATV-mounted CME 45B drill rig with 4-inch O.D. continuous flight augers. Samples were obtained at various intervals using a split-barrel sampler (standard penetration test to develop N-values). The borings were drilled to depths of 2.7 and 6.0 feet each below the existing surface. Detailed logs of the borings are displayed on Plates 2 and 3.

The borings were logged in the field by the driller based upon visual classifications of materials encountered during drilling, as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent the engineer's interpretation of the field logs and include revisions based upon results of the laboratory testing and visual-manual observation of the samples.

LABORATORY TESTING PROGRAM

The laboratory testing program was designed to determine the pertinent engineering and index properties of the soil. Moisture content and Atterberg limits were determined for select samples. Results of the laboratory tests are displayed upon the borings logs. All tests were performed in general accordance with applicable ASTM standards.

SUBSURFACE CONDITIONS

Stratigraphy. Typical subsurface conditions include undisturbed lean (low plasticity) clays overlying limestone bedrock. Limestone bedrock was encountered at depths of 1.0 and 1.5 feet.

Moisture contents for the clay soil samples ranged from 14.2 to 25.8 percent. Atterberg limits tests and visual-manual observation indicated the upper site soils classify as lean (CL) clays, in general accordance with the Unified Soil Classification System. The CL soils typically have low plasticity with corresponding low swell potentials.

Groundwater. Groundwater was not encountered within the depths explored. It should be understood that the level of groundwater may fluctuate due to rainfall and other climatic factors, and that groundwater may or may not be present during construction or at other times during the life of the project.

DESIGN CONSIDERATIONS AND RECOMMENDATIONS

Site Preparation. Site preparation should begin with stripping of all vegetation and topsoil from the construction areas. Stripping should extend a minimum of 5 feet beyond the structure footprint. A minimum stripping depth of approximately 8 inches should be anticipated. However, stripping depths will likely vary and should be adjusted to remove all vegetation and root systems. Soils removed during site stripping operations could be used for final site grading outside the proposed structure and pavement areas.

Relocation of any existing utility lines within the zone of influence of proposed construction areas should also be completed as part of the site preparation. The lines should be relocated to areas outside of the proposed construction. Excavations created by removal of the existing lines should be cut wide enough to allow for use of heavy construction equipment to recompact the fill. In addition, the base of the excavations should be thoroughly evaluated by a geotechnical engineer or engineering technician prior to placement of fill. All fill should be placed in accordance with the recommendations presented in the 'Structural Fill' section of this report.

Following stripping and cutting to grade, the moisture content of the exposed soils should be evaluated. Depending on the in-situ moisture content of the exposed soils, moisture conditioning of the exposed grade may be required. The moisture content of the exposed grade should be adjusted to within the range recommended for structural fill to allow the exposed material to be compacted to a minimum density of 95 percent of maximum density as determined by the standard Proctor compaction procedure. Extremely wet or unstable areas that hamper compaction of the subgrade may require undercutting and replacement with structural fill or other stabilization techniques. Suitable structural fill should be placed to design grade as soon as practical after reworking the subgrade to avoid moisture changes in the underlying soils.

Following moisture conditioning of the exposed soils, it is recommended that the exposed grade be proofrolled to provide a more stable base for placement of structural fill and to assist in identifying soft or disturbed areas. Unsuitable areas identified by the proofrolling operation should be undercut and replaced with structural fill. Proofrolling can be accomplished through use of a fully-loaded, tandem-axle dump truck or similar equipment providing an equivalent subgrade loading.

After stripping and/or cutting to grade in the proposed pavement areas, the exposed materials should also be moisture conditioned and proofrolled prior to paving. Any soft or unstable areas observed during proofrolling should be undercut and brought up to planned grade with structural fill.

Structural Fill. The majority of on-site clay soils are acceptable as low volume change materials and they may be utilized as general fill and backfill materials. Fill soils placed within 12 inches of the floor slab base materials and within 8 inches of the pavement base materials should be low volume change (LVC) cohesive soils with a liquid limit less than 45 and a plasticity index between 10 and 25. Imported fill material should be in accordance with these parameters. All structural fill should consist of approved materials free of organic matter, debris, and particles larger than 3 inches. Materials meeting requirements for KDOT AB-3 may be utilized for LVC.

All fill should be placed in lifts having a maximum loose lift thickness of 8 inches, and should be compacted to a minimum of 95 percent of the material's maximum dry density as determined by ASTM D 698 (standard Proctor compaction test). The moisture content of the fill at the time of compaction should be within a range of 1 percent below to 3 percent above optimum moisture content as defined by the standard Proctor compaction test. Moisture contents should be maintained within this range until completion of the floor slab and pavement.

The geotechnical engineer should approve all fill material. Approval requires that a moisture-density relationship and Atterberg limits be performed for each proposed fill material prior to its placement.

All utility trenches should be backfilled with either on-site or imported fill material. Granular materials such as clean sand or gravel should not be used to bed utilities or backfill trenches unless the bottom of the trench is graded so that water flows away from the structure and pavement areas.

Where fill is being placed on a slope steeper than 5:1 (horizontal:vertical), the existing slope should be benched as fill placement progresses. These benches should be stepped vertically between 12 and 36 inches. This procedure would better key the fill into the original slope and will facilitate compaction of the fill.

Final slopes greater than 3:1 (horizontal:vertical) should not be used for ease of maintenance.

Continuous observation by the geotechnical engineer or his representative should be maintained during site preparation and compaction of all fill and backfill material.

Foundations. On the basis of the anticipated maximum loading conditions and the anticipated finish floor elevation being just above existing grade, it is recommended that the building be founded on continuous trench or strip and shallow spread footings bearing entirely upon the underlying limestone bedrock. A net allowable bearing pressure of 5,000 pounds per square foot may be used to design and proportion the footings.

The base of exterior footings should be placed a minimum of 3 feet below the lowest adjacent exterior grade for frost protection and reduction of moisture variations in the soil. Interior footings, within areas which will be continuously heated, may be placed a minimum of 2 feet below the interior finished floor. If the perimeter foundation is doweled into the underlying limestone, the minimum depth of 3 feet may be reduced to 2 feet.

Isolated footings should have a minimum width of 24 inches. Strip and trench footings should have minimum widths of 18 and 12 inches, respectively. The base of footing excavations should be free of all water, loose debris, and not allowed to become excessively wet or dry prior to placement of concrete.

All footing excavations should be observed by the geotechnical engineer of record or a representative to verify the suitability of the bearing material prior to placement of reinforcing steel. If soft or unsuitable material is encountered during excavation of the footings, it may be necessary that the existing soil be undercut to suitable material.

Uplift. Uplift forces, if any, may be resisted by the weight of the footings.

Lateral Pressures. Unrestrained walls below grade, if required, should be designed for an equivalent active fluid pressure of 40 psf/ft. Restrained walls below grade should be designed for an “at rest” equivalent fluid pressure of 60 psf/ft.

Lateral Loads. A coefficient of base friction of 0.35 may be used for the contact between concrete and bedrock.

Slab-On-Grade. The slab-on-grade should be designed such that axial column loads are not transferred through the slab. A 4-inch layer of open graded gravel (ASTM C33 No. 57) should be placed directly below the slab-on-grade. Soils within 12 inches of the open graded gravel should consist of low volume change cohesive soil or chemically stabilized on-site soils. A moisture barrier should be placed between the slab and the open graded gravel. We recommend that the slab-on-grade be designed for a modulus of subgrade reaction of 125 pounds per cubic inch.

Thickened slab sections can be used to support interior non-load bearing walls provided that:

- Loads do not exceed 900 pounds per linear foot.
- Thickened sections have a minimum thickness and width of 8 inches and 12 inches, respectively.
- Thickness and reinforcement are consistent with structural requirements.

Pavement Sections. The CBR value for the soil types encountered on the site are typically estimated to be 3; therefore, the following pavement sections are recommended for drives and parking areas. Recommendations for both flexible and rigid pavements are presented in Table 1.

Table 1 – Recommended Pavement Sections for Pavement Life of 20 Years

Concrete	Asphaltic Concrete	Asphaltic Concrete with Aggregate Base
9" Portland Cement Concrete 4" Well Graded Granular Base 8" Moisture Conditioned & Compacted Onsite Soil	10" Hot-Mixed Asphalt Concrete 8" Moisture Conditioned & Compacted Onsite Soil	9" Hot-Mixed Asphalt Concrete 6" Well Graded Granular Base Course 8" Moisture Conditioned & Compacted Onsite Soil

Mixes selected for the Asphalt Concrete alternate can be KDOT HMA Commercial Grade (Class A). If a Marshall designed mix is desired, any 50-blow Marshall mix may be selected meeting the aggregate and gradation requirements of the KDOT BM-2, or other locally produced Marshall mix that is equivalent to KDOT BM-2. Any submitted 50-blow Marshall mix design must also be checked for resistance to stripping during design using AASHTO T 283 to determine if an antistripping agent is needed for the same asphalt concrete chosen for the project. The index of retained strength shall exceed 75%.

KVE recommends Portland cement concrete for pavement, sidewalks, and curbs meet the current requirements of the 2015 KDOT Standard Specifications for on-grade concrete.

Pavement in any dumpster area should be the Portland cement concrete section as recommended in the truck access and drives section. Also, preventive maintenance action(s) may be needed for the asphaltic concrete parking and drives in order to maintain the service condition (i.e. crack sealing).

Settlement. Foundations proportioned and constructed as recommended above should experience total settlement of less than 1 inch with differential settlement between any two adjacent footings being no more than one half inch.

Drainage. The site should be graded so that surface water flows away from the structure and pavement areas and is not allowed to accumulate near or under the slab-on-grade or pavement. Where sidewalks or paving do not immediately adjoin the structure, a grade of at least 5 percent for a minimum of 10 feet from the perimeter walls is recommended.

Landscaping. Consideration should be given to limiting landscaping and irrigation adjacent to the building and pavement areas. Trees and large bushes can draw moisture from subgrade soils resulting in settlement of foundations and pavements.

OBSERVATION OF CONSTRUCTION

The conclusions and recommendations given in this report are based on interpretation of field boring and laboratory data coupled with our experience. Variations may occur from conditions observed within test borings; therefore, it is imperative to involve the geotechnical engineer in the final design and construction process.

Field observation services are viewed as a continuation of the design process. Unless these services are provided, the geotechnical engineer will not be responsible for improper use of recommendations, or failure by others to recognize conditions which may be detrimental to the successful completion of the project.

LIMITATIONS

The analyses, conclusions, and recommendations contained in this report are based on the site conditions and project layout described herein and further assume that the conditions observed in the exploratory borings are representative of the subsurface conditions throughout the site, i.e., the subsurface conditions elsewhere on the site are the same as those disclosed by the borings. If, during construction, subsurface conditions different from those encountered in the exploratory borings are observed or appear to be present beneath excavations, we should be advised at once so that we can review these conditions and reconsider our recommendations where necessary.

If there is a substantial lapse in time between the submittal of this report and the start of work at the site, or if conditions or the project layout have changed due to natural causes or construction operations at or adjacent to the site, we recommend that this report be reviewed to determine the applicability of conclusions and recommendations considering the changed conditions and time lapse.

We recommend that we be retained to review the project layout and those portions of plans and specifications which pertain to foundations and earthwork to determine if they are consistent with our findings and recommendations. In addition, we are available to observe construction, particularly site grading, earthwork, and foundation construction. We would be available to make other field observations as may be necessary.

This report was prepared for the exclusive use of the owner, architect, and engineer for evaluating the design of the project as it relates to the geotechnical aspects discussed herein. It should be made available to prospective contractors for information on factual data only and not as a warranty of subsurface conditions included in the report. Unanticipated soil conditions may require that additional expense be made to attain a properly constructed project. Therefore, some contingency fund is recommended to accommodate such potential extra costs.

* * * * *

The following plates are attached to and complete this report:

Plate 1 - Boring Location Plan

Plates 2 and 3 - Logs of Borings

Boring Log Reference Legend

* * * * *

We appreciate the opportunity to be of service to you on this project. Please contact us if you have any questions or comments.

Respectfully submitted,
Kaw Valley Engineering, Inc.


 Jessica A. Nixon, P.E.
 Geotechnical Engineer


 Michael R. Osborn, P.E.
 Principal





Site Plan and Boring Locations

North

Plate 1

RILEY COUNTY FIRE DISTRICT I - UNIVERSITY PARK
Lakeview Drive and Hi View Drive
Manhattan, Kansas

Approved By: JAN

Not to Scale

Project No. C21G0922



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Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

32.d

32.d



Kaw Valley Engineering, Inc.
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Lenexa, Kansas 66215
Telephone: (913)894-5150
Fax: (913)894-5977

CLIENT:	Anderson Knight Architects	32.d
PROJECT:	Riley Co Fire District 1 - University Park	
NUMBER:	C21G0922	
LOCATION:	Lakeview Dr & Hi View Dr - Manhatt KS	

DATE(S) DRILLED: 5/22/21 - 5/22/21

FIELD DATA		LABORATORY DATA										DRILLING METHOD(S): 4" CFA		
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45B DRILL RIG OPERATOR: Les Scott LOGGED BY: Tui Hudson	
						LL	PL	PI					GROUNDWATER INFORMATION: Water level while drilling - Dry Water level upon completion - Dry	
SURFACE ELEVATION: 1294.1'														
DESCRIPTION OF STRATUM														
LEAN CLAY: Light brown; stiff; moist														
LIMESTONE: Light brown; moderately weathered														
BORING TERMINATED AT 2.7'														
REMARKS: Surficial conditions - Grass														

LOG OF BORING B-2

SHEET 1 OF 1
32.d



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CLIENT: Anderson Knight Architects
PROJECT: Riley Co Fire District 1 - University Park
NUMBER: C21G0922
LOCATION: Lakeview Dr & Hi View Dr - Manhatt
KS

DATE(S) DRILLED: 5/22/21 - 5/22/21

FIELD DATA				LABORATORY DATA								GROUNDWATER INFORMATION:	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSION STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	SURFACE ELEVATION: 1296.4'
						LL	PL	PI					
	1												LEAN CLAY: Light brown; stiff; moist
	2		T = 4/6/8		17.6	29	23	6					LIMESTONE: Light brown; moderately weathered
	3												
	4		T = 19/17/13		25.8	26	21	5					
	5												
	6												
	7	BORING TERMINATED AT 6.0'											AUGER REFUSAL AT 6.0'
	8												
	9												

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - BLOWS PER SIX INCHES
REC - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Surficial conditions - Grass

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

BORING LOG REFERENCE LEGEND

DESCRIPTIVE SOIL CLASSIFICATION

Soil description is based on the Unified Soil Classification System as outlined in ASTM Designation D-2487. The Unified Soil Classification group symbol for soil descriptions shown on the boring logs corresponds with the group names listed below. The description includes soil constituents, consistency, relative density, color and any other appropriate descriptive terms. Geologic description of bedrock, when encountered, is also shown in the description column. Refer to the appropriate notes for bedrock classification.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
GW	Well graded gravel	SW	Well graded sand	CL	Lean clay	CH	Fat clay
GP	Poorly graded gravel	SP	Poorly graded sand	ML	Silt	MH	Elastic silt
GM	Silty gravel	SM	Silty sand	OL	Organic clay Organic silt	OH	Organic clay Organic silt
GC	Clayey gravel	SC	Clayey sand			PT	Peat

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Q_u , psf

< 500	Very Soft
500 – 1,000	Soft
1,001 – 2,000	Firm
2,001 – 4,000	Stiff
4,001 – 8,000	Very Stiff
8,001 – 16,000	Hard
> 16,000	Very Hard

RELATIVE PROPORTIONS

Descriptive Term(s) (Components also Percent in Sample)	Sand & Gravel Percent of Dry Wt.	Fines Percent of Dry Wt.
---	-------------------------------------	-----------------------------

Trace	< 15	<5
Some	15 – 29	5 - 12
Modifier	> 30	> 12

RELATIVE DENSITY OF COARSE-GRAINED SOILS

N - (blows/ft)	Relative Density
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 49	Dense
50+	Very Dense

GRAIN SIZE TERMINOLOGY

Major Component	Size Range
Cobbles	12 in to 3 in
Gravel	3 in to #4 sieve
Sand	#4 to #200 sieve
Silt or Clay	Passing #200 sieve

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soil the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with only short-term observation.

DEFINITIONS OF ABBREVIATIONS

CR –	Core recovery, length of core recovered in each run compared to the length drilled expressed as percent
LL –	Liquid limit of specimen
N –	Number of blows to penetrate last 12 inches with 140-pound hammer in standard penetration test Blow count reported for each 6-inch interval on logs
PL –	Plastic limit of specimen
RQD –	Rock quality designation, aggregate length of core pieces greater than 4 inches long, expressed as percent of length drilled
TW –	Thin walled tube
SS –	Standard penetration test
NQ2 –	2 inches diameter core
CFA –	Continuous flight augers
HSA –	Hollow stem augers
EOB –	End of boring





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**GEOTECHNICAL ENGINEERING REPORT
RILEY COUNTY FIRE DISTRICT 1
ASHLAND BOTTOMS
MCDOWELL CREEK ROAD & KONZA PRAIRE LANE
MANHATTAN, KANSAS**

Prepared For:

ANDERSON KNIGHT ARCHITECTS LLC
2505 Anderson Avenue, Suite 201
Manhattan, Kansas 66502

Prepared By:

KAW VALLEY ENGINEERING, INC.
14700 West 114th Terrace
Lenexa, Kansas 66215

June 11, 2021

Project No. **C21G0922**

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)



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 Lenexa, KS 66215

June 11, 2021

C21G0922

Mr. Dan Knight
 Anderson Knight Architects LLC
 2505 Anderson Avenue, Suite 201
 Manhattan, Kansas 66502

**RE: GEOTECHNICAL ENGINEERING REPORT
 RILEY COUNTY FIRE DISTRICT 1
 ASHLAND BOTTOMS
 MCDOWELL CREEK ROAD & KONZA PRAIRE LANE
 MANHATTAN, KANSAS**

Dear Mr. Knight:

This report presents the results of a subsurface exploration and geotechnical engineering analysis conducted for the referenced project. This exploration was conducted in general accordance with our proposal dated March 3, 2021. Authorization to proceed with geotechnical services for this site was provided on April 4, 2021. The purpose of this study was to determine subsurface conditions at the site and to develop geotechnical parameters related to design and construction of the project.

EXECUTIVE SUMMARY

Information, conclusions, and recommendations, which in our opinion are significant to the design and construction of this project, are provided below. Additional details, the general subsurface profile, other related items, and general information regarding the various phases of our exploration are included in the main body of the report.

Typical subsurface conditions include undisturbed lean to fat (medium plasticity) and fat (high plastic) clays overlying bedrock. Shale and limestone bedrock were encountered at depths of 6.0 and 11.5 feet. On the basis of the anticipated finish floor elevations being just above existing grade, it is recommended that the proposed building be founded on shallow footings bearing upon the existing undisturbed soils. A net allowable bearing pressure of 3,000 pounds per square foot may be used to design and size the footings for the proposed building.

PROJECT AND SITE DESCRIPTION

The proposed project is to include the construction of a new building. The new building is to be located on the south side of McDowell Creek Road approximately 2,000 feet southwest of Konza Prairie Lane in Manhattan Kansas. The building is planned to be a 40 by 50 foot pre-engineered metal building with an anticipated finish floor elevation near the existing grade. Wall and column

loads are assumed to be less than 3 kips per linear foot and 50 kips, respectively. The site is presently covered by a grass field. The project area descends slightly to the north with 3 feet of elevation variation between the borings. The site and surrounding area are displayed on Plate 1.

FIELD EXPLORATION

The field exploration was performed on May 22, 2021 and included drilling two test borings identified as Borings B-1 and B-2. Boring locations were estimated from existing surface features. The boring elevations were determined by differential levelling utilizing HCP #501 as a benchmark at elevation of 1064.7 feet. The boring locations and elevations are displayed on Plate 1 and the logs of the borings, respectively.

The borings were drilled using an ATV-mounted CME 45B drill rig with 4-inch O.D. continuous flight augers. Samples were obtained at various intervals using thin-walled steel (Shelby) tubes and a split-barrel sampler (standard penetration test to develop N-values). The borings were drilled to depths of 18.6 and 10.0 feet each below the existing surface. Detailed logs of the borings are displayed on Plates 2 and 3.

The borings were logged in the field by the driller based upon visual classifications of materials encountered during drilling, as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent the engineer's interpretation of the field logs and include revisions based upon results of the laboratory testing and visual-manual observation of the samples.

LABORATORY TESTING PROGRAM

The laboratory testing program was designed to determine the pertinent engineering and index properties of the soil. Moisture content, dry density, unconfined compressive strength, and Atterberg limits were determined for select samples. Results of the laboratory tests are displayed upon the borings logs. All tests were performed in general accordance with applicable ASTM standards.

SUBSURFACE CONDITIONS

Stratigraphy. Typical subsurface conditions include undisturbed lean to fat (medium plasticity) and fat (high plastic) clays overlying bedrock. Shale and limestone bedrock were encountered at depths of 6.0 and 11.5 feet.

Moisture contents for the clay soil samples ranged from 15.1 to 26.4 percent with dry densities varying from 93.9 to 105.8 pounds per cubic foot. Unconfined compressive strengths of the clay samples ranged from 4,639 to 7,016 pounds per square foot. Atterberg limits tests and visual-manual observation indicated the upper site soils classify as lean to fat (CL-CH) and fat (CH) clays, in general accordance with the Unified Soil Classification System. The CL-CH soils typically have medium plasticity with corresponding moderate swell potentials. The CH soils typically have high plasticity with corresponding high swell potentials.

Groundwater. Groundwater was encountered in Boring B-2 at a depth of 6.5 feet. It should be understood that the level of groundwater may fluctuate due to rainfall and other climatic factors, and that groundwater may or may not be present during construction or at other times during the life of the project.

DESIGN CONSIDERATIONS AND RECOMMENDATIONS

Site Preparation. Site preparation should begin with stripping of all vegetation and topsoil from the construction areas. Stripping should extend a minimum of 5 feet beyond the structure footprint. A minimum stripping depth of approximately 8 inches should be anticipated. However, stripping depths will likely vary and should be adjusted to remove all vegetation and root systems. Soils removed during site stripping operations could be used for final site grading outside the proposed structure and pavement areas.

Relocation of any existing utility lines within the zone of influence of proposed construction areas should also be completed as part of the site preparation. The lines should be relocated to areas outside of the proposed construction. Excavations created by removal of the existing lines should be cut wide enough to allow for use of heavy construction equipment to recompact the fill. In addition, the base of the excavations should be thoroughly evaluated by a geotechnical engineer or engineering technician prior to placement of fill. All fill should be placed in accordance with the recommendations presented in the ‘Structural Fill’ section of this report.

Following stripping and cutting to grade, the moisture content of the exposed soils should be evaluated. Depending on the in-situ moisture content of the exposed soils, moisture conditioning of the exposed grade may be required. The moisture content of the exposed grade should be adjusted to within the range recommended for structural fill to allow the exposed material to be compacted to a minimum density of 95 percent of maximum density as determined by the standard Proctor compaction procedure. Extremely wet or unstable areas that hamper compaction of the subgrade may require undercutting and replacement with structural fill or other stabilization techniques. Suitable structural fill should be placed to design grade as soon as practical after reworking the subgrade to avoid moisture changes in the underlying soils.

Following moisture conditioning of the exposed soils, it is recommended that the exposed grade be proofrolled to provide a more stable base for placement of structural fill and to assist in identifying soft or disturbed areas. Unsuitable areas identified by the proofrolling operation should be undercut and replaced with structural fill. Proofrolling can be accomplished through use of a fully-loaded, tandem-axle dump truck or similar equipment providing an equivalent subgrade loading.

After stripping and/or cutting to grade in the proposed pavement areas, the exposed materials should also be moisture conditioned and proofrolled prior to paving. Any soft or unstable areas observed during proofrolling should be undercut and brought up to planned grade with structural fill.

Structural Fill. On-site soils are not acceptable as general fill inside the building area. Soils within 12 inches of the building floor slab base materials and 8 inches beneath pavement areas should meet the requirements of imported fill. All structural fill should consist of approved materials, free of organic matter and debris and in accordance with imported fill parameters. Imported fill material should consist of low swell potential soils with a liquid limit less than 45 and a plasticity index between 10 and 25. This soil is also identified as low volume change (LVC) soil. Placement of stabilized high plasticity soil should be performed in accordance with parameters listed in the 'Chemical Stabilization' section of this report. As an alternative, KDOT AB-3 aggregate base may be utilized as imported LVC fill.

All fill should be placed in lifts having a maximum loose lift thickness of 8 inches, and should be compacted to a minimum of 95 percent of the material's maximum dry density as determined by ASTM D 698 (standard Proctor compaction test). The moisture content of the fill at the time of compaction should be within a range of 1 percent below to 3 percent above optimum moisture content as defined by the standard Proctor compaction test. Moisture contents should be maintained within this range until completion of the floor slab and pavement.

The geotechnical engineer should approve all fill material. Approval requires that a moisture-density relationship and Atterberg limits be performed for each proposed fill material prior to its placement.

All utility trenches should be backfilled with either on-site or imported fill material. Granular materials such as clean sand or gravel should not be used to bed utilities or backfill trenches unless the bottom of the trench is graded so that water flows away from the structure and pavement areas.

Where fill is being placed on a slope steeper than 5:1 (horizontal:vertical), the existing slope should be benched as fill placement progresses. These benches should be stepped vertically between 12 and 36 inches. This procedure would better key the fill into the original slope and will facilitate compaction of the fill.

Final slopes greater than 3:1 (horizontal:vertical) should not be used for ease of maintenance.

Continuous observation by the geotechnical engineer or his representative should be maintained during site preparation and compaction of all fill and backfill material.

Chemically Modified Subgrade. As an option to mitigate the high swell potential of the on-site soils, the on-site high plastic clays may be fly ash stabilized. One possible method for this is to scarify and moisture condition the exposed surfaces for a minimum depth of 12 inches at a moisture content of 5 to 8% above optimum moisture in the building subgrade areas. To accomplish this, strip off and stockpile the top 6 inches of moisture conditioned soil. Add 15% Type C fly ash by dry weight to the bottom layer (i.e. 12 pounds per square foot of area per 8 inch lift), and blend with moisture-conditioned soil utilizing a Bomag pulvamixer or approved equivalent. Recompact the soil and fly ash mixture to a minimum dry density of 95% of the maximum dry density, with the moisture content between optimum moisture and 3% above optimum as determined by ASTM D 698. Return the previously stockpiled soil to the treatment area and chemically modify the

stockpiled soil layer of soil using the same procedure. Compaction of fly ash treated soils should be completed within 2 hours of incorporation of the fly ash.

As an alternate to fly ash stabilization, 5% hydrated lime (4 pounds per square foot of area per 8-inch lift), 9% Portland cement (7 pounds per square foot of area per 8 inch lift), 7% Cement kiln dust (CKD) (6 pounds per square foot of area per 8 inch lift); or 5% Lime kiln dust (LKD) (4 pounds per square foot of area per 8 inch lift) may be considered.

Foundations. On the basis of the anticipated maximum loading conditions and the anticipated finish floor elevation being near the existing grade, it is recommended that the building be founded on continuous trench or strip and shallow spread footings bearing upon the existing undisturbed clay soils. A net allowable bearing pressure of 3,000 pounds per square foot may be used to design and proportion the footings.

The base of exterior footings should be placed a minimum of 3 feet below the lowest adjacent exterior grade for frost protection and reduction of moisture variations in the soil. Interior footings, within areas which will be continuously heated, may be placed a minimum of 2 feet below the interior finished floor.

Isolated footings should have a minimum width of 24 inches. Strip and trench footings should have minimum widths of 18 and 12 inches, respectively. The base of footing excavations should be free of all water, loose debris, and not allowed to become excessively wet or dry prior to placement of concrete.

All footing excavations should be observed by the geotechnical engineer of record or a representative to verify the suitability of the bearing material prior to placement of reinforcing steel. If soft or unsuitable material is encountered during excavation of the footings, it may be necessary that the existing soil be undercut to suitable material.

Uplift. Uplift forces, if any, may be resisted by the weight of the footings.

Lateral Pressures. Unrestrained walls below grade, if required, should be designed for an equivalent active fluid pressure of 40 psf/ft. Restrained walls below grade should be designed for an “at rest” equivalent fluid pressure of 60 psf/ft.

Lateral Loads. A coefficient of base friction of 0.25 may be used for the contact between concrete and soil.

Slab-On-Grade. The slab-on-grade should be designed such that axial column loads are not transferred through the slab. A 4-inch layer of open graded gravel (ASTM C33 No. 57) should be placed directly below the slab-on-grade. Soils within 12 inches of the open graded gravel should consist of low volume change cohesive soil or chemically stabilized on-site soils. A moisture barrier should be placed between the slab and the open graded gravel. We recommend that the slab-on-grade be designed for a modulus of subgrade reaction of 125 pounds per cubic inch.

Thickened slab sections can be used to support interior non-load bearing walls provided that:

- Loads do not exceed 900 pounds per linear foot.
- Thickened sections have a minimum thickness and width of 8 inches and 12 inches, respectively.
- Thickness and reinforcement are consistent with structural requirements.

Pavement Sections. The CBR value for the soil types encountered on the site are typically estimated to be 3; therefore, the following pavement sections are recommended for drives and parking areas. Recommendations for both flexible and rigid pavements are presented in Table 1.

Table 1 – Recommended Pavement Sections for Pavement Life of 20 Years

Concrete	Asphaltic Concrete	Asphaltic Concrete with Aggregate Base
9" Portland Cement Concrete 4" Well Graded Granular Base 8" Moisture Conditioned & Compacted LVC Soil or Stabilized Onsite Soil	10" Hot-Mixed Asphalt Concrete 8" Moisture Conditioned & Compacted LVC Soil or Stabilized Onsite Soil	9" Hot-Mixed Asphalt Concrete 6" Well Graded Granular Base Course 8" Moisture Conditioned & Compacted LVC Soil or Stabilized Onsite Soil

Mixes selected for the Asphalt Concrete alternate can be KDOT HMA Commercial Grade (Class A). If a Marshall designed mix is desired, any 50-blow Marshall mix may be selected meeting the aggregate and gradation requirements of the KDOT BM-2, or other locally produced Marshall mix that is equivalent to KDOT BM-2. Any submitted 50-blow Marshall mix design must also be checked for resistance to stripping during design using AASHTO T 283 to determine if an antistripping agent is needed for the same asphalt concrete chosen for the project. The index of retained strength shall exceed 75%.

KVE recommends Portland cement concrete for pavement, sidewalks, and curbs meet the current requirements of the 2015 KDOT Standard Specifications for on-grade concrete.

Pavement in any dumpster area should be the Portland cement concrete section as recommended in the truck access and drives section. Also, preventive maintenance action(s) may be needed for the asphaltic concrete parking and drives in order to maintain the service condition (i.e. crack sealing).

Settlement. Foundations proportioned and constructed as recommended above should experience total settlement of less than 1 inch with differential settlement between any two adjacent footings being no more than one half inch.

Drainage. The site should be graded so that surface water flows away from the structure and pavement areas and is not allowed to accumulate near or under the slab-on-grade or pavement. Where sidewalks or paving do not immediately adjoin the structure, a grade of at least 5 percent for a minimum of 10 feet from the perimeter walls is recommended.

Landscaping. Consideration should be given to limiting landscaping and irrigation adjacent to the building and pavement areas. Trees and large bushes can draw moisture from subgrade soils resulting in settlement of foundations and pavements.

OBSERVATION OF CONSTRUCTION

The conclusions and recommendations given in this report are based on interpretation of field boring and laboratory data coupled with our experience. Variations may occur from conditions observed within test borings; therefore, it is imperative to involve the geotechnical engineer in the final design and construction process.

Field observation services are viewed as a continuation of the design process. Unless these services are provided, the geotechnical engineer will not be responsible for improper use of recommendations, or failure by others to recognize conditions which may be detrimental to the successful completion of the project.

LIMITATIONS

The analyses, conclusions, and recommendations contained in this report are based on the site conditions and project layout described herein and further assume that the conditions observed in the exploratory borings are representative of the subsurface conditions throughout the site, i.e., the subsurface conditions elsewhere on the site are the same as those disclosed by the borings. If, during construction, subsurface conditions different from those encountered in the exploratory borings are observed or appear to be present beneath excavations, we should be advised at once so that we can review these conditions and reconsider our recommendations where necessary.

If there is a substantial lapse in time between the submittal of this report and the start of work at the site, or if conditions or the project layout have changed due to natural causes or construction operations at or adjacent to the site, we recommend that this report be reviewed to determine the applicability of conclusions and recommendations considering the changed conditions and time lapse.

We recommend that we be retained to review the project layout and those portions of plans and specifications which pertain to foundations and earthwork to determine if they are consistent with our findings and recommendations. In addition, we are available to observe construction, particularly site grading, earthwork, and foundation construction. We would be available to make other field observations as may be necessary.

This report was prepared for the exclusive use of the owner, architect, and engineer for evaluating the design of the project as it relates to the geotechnical aspects discussed herein. It should be made available to prospective contractors for information on factual data only and not as a warranty of subsurface conditions included in the report. Unanticipated soil conditions may require that additional expense be made to attain a properly constructed project. Therefore, some contingency fund is recommended to accommodate such potential extra costs.

* * * * *

The following plates are attached to and complete this report:

Plate 1 - Boring Location Plan

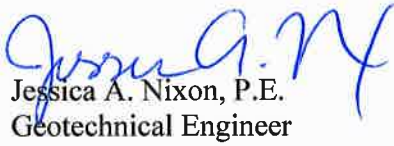
Plates 2 and 3 - Logs of Borings

Boring Log Reference Legend

* * * * *

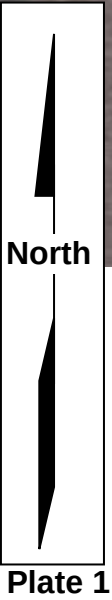
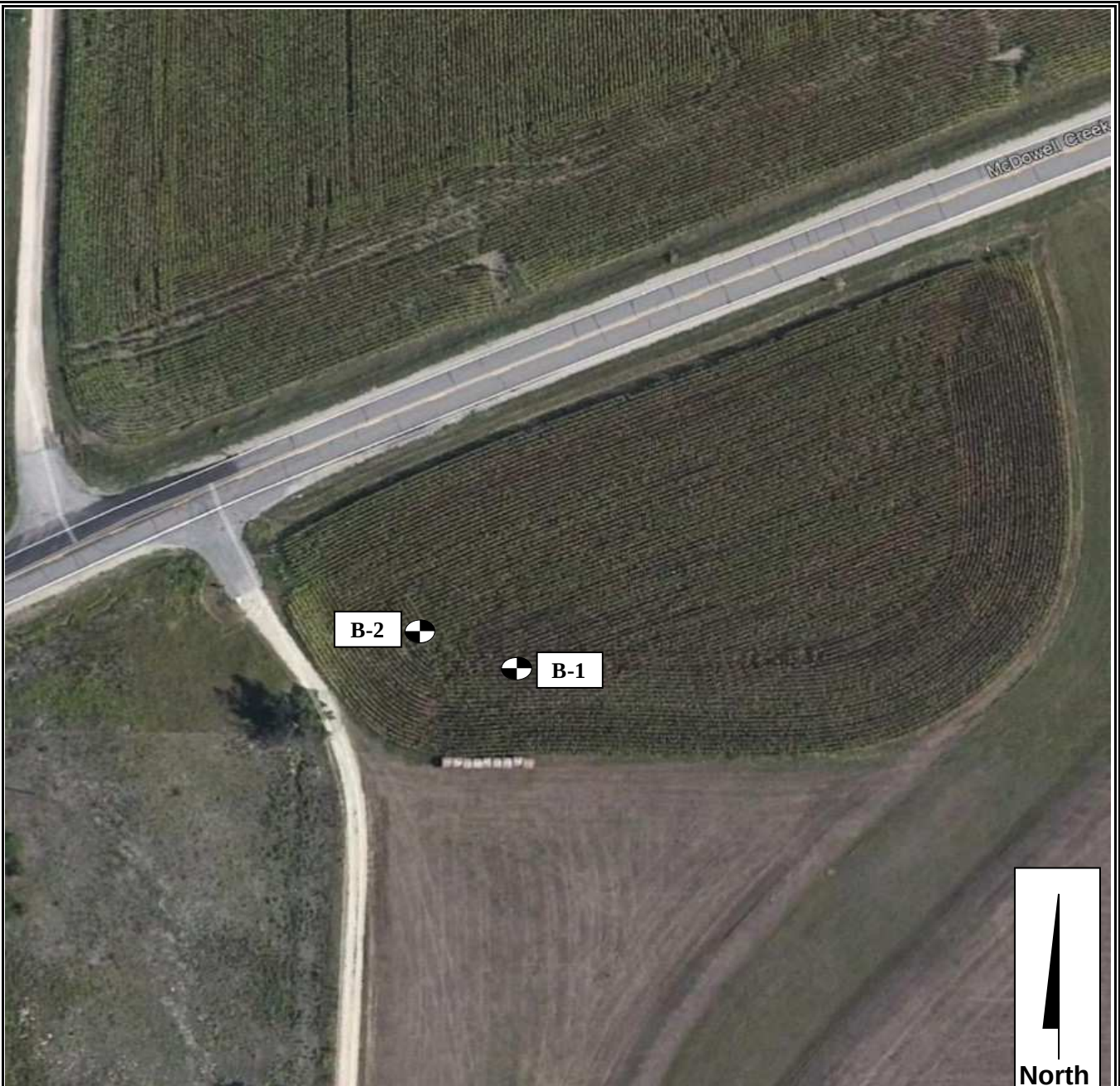
We appreciate the opportunity to be of service to you on this project. Please contact us if you have any questions or comments.

Respectfully submitted,
Kaw Valley Engineering, Inc.


 Jessica A. Nixon, P.E.
 Geotechnical Engineer


 Michael R. Osbourn, P.E.
 Principal





Site Plan and Boring Locations

Plate 1

RILEY COUNTY FIRE DISTRICT I - ASHLAND BOTTOMS
 McDowell Creek Road and Konza Prairie Lane
 Manhattan, Kansas



Approved By: JAN	Not to Scale	Project No. C21G0922
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Attachment: SPC 21022 002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

LOG OF BORING B-1

SHEET 1 OF 1
32.d



Kaw Valley Engineering, Inc.
14700 W 114th Terrace
Lenexa, Kansas 66215
Telephone: (913)894-5150
Fax: (913)894-5977

CLIENT: Anderson Knight Architects
PROJECT: Riley County Fire District I - Ashland Bottoms
NUMBER: C21G0922
LOCATION: McDowell Creek Rd & Konza Prairie
Mahattan, KS
DATE(S) DRILLED: 5/22/21 - 5/22/21

FIELD DATA				LABORATORY DATA								DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	
						LL	PL	PI					
	5			13	26.4	48	21	27	93.9				
				14	25.0	48	22	26	97.1	6003			
	10			11	22.6				102.9	7016			
	15			24	24.5				105.8				
	20				15.1								
BORING TERMINATED AT 18.6'													
LEAN TO FAT CLAY: Dark gray; stiff; moist LEAN TO FAT CLAY: Brown; stiff; moist LIMESTONE: Brown; soft; highly weathered SHALE: Olive and light brown; soft; highly weathered LIMESTONE: Light brown; hard													
REMARKS: Surficial conditions - Weeds													

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

32.d

32.d



Kaw Valley Engineering, Inc.
14700 W 114th Terrace
Lenexa, Kansas 66215
Telephone: (913)894-5150
Fax: (913)894-5977

CLIENT:	Anderson Knight Architects	32.d
PROJECT:	Riley County Fire District I - Ashland Bottoms	
NUMBER:	C21G0922	
LOCATION:	McDowell Creek Rd & Konza Prairie Mahattan, KS	
DATE(S) DRILLED:	5/22/21 - 5/22/21	

FIELD DATA			LABORATORY DATA										DRILLING METHOD(S): 4" CFA	
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS/SIX INCHES REC: % RQD: %	RECOVERY (IN)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CUBIC FT	COMPRESSIVE STRENGTH (POUNDS/SQ FT)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DRILL RIG: CME 45B	
						LL	PL	PI					DRILL RIG OPERATOR: Les Scott	
													LOGGED BY: Tui Hudson	
GROUNDWATER INFORMATION:														
Water level while drilling - 6.5'														
Water level upon completion - 7.0'														
SURFACE ELEVATION: 1067.2'														
DESCRIPTION OF STRATUM														
FAT CLAY: Brown; stiff; moist														
LIMESTONE: Brown; soft; highly weathered														
SHALE: Light brown; soft; highly weathered														
BORING TERMINATED AT 10.0'														
REMARKS:														
Surficial conditions - Weeds														

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

BORING LOG REFERENCE LEGEND

DESCRIPTIVE SOIL CLASSIFICATION

Soil description is based on the Unified Soil Classification System as outlined in ASTM Designation D-2487. The Unified Soil Classification group symbol for soil descriptions shown on the boring logs corresponds with the group names listed below. The description includes soil constituents, consistency, relative density, color and any other appropriate descriptive terms. Geologic description of bedrock, when encountered, is also shown in the description column. Refer to the appropriate notes for bedrock classification.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
GW	Well graded gravel	SW	Well graded sand	CL	Lean clay	CH	Fat clay
GP	Poorly graded gravel	SP	Poorly graded sand	ML	Silt	MH	Elastic silt
GM	Silty gravel	SM	Silty sand	OL	Organic clay Organic silt	OH	Organic clay Organic silt
GC	Clayey gravel	SC	Clayey sand			PT	Peat

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Q_u , psf

< 500	Very Soft
500 – 1,000	Soft
1,001 – 2,000	Firm
2,001 – 4,000	Stiff
4,001 – 8,000	Very Stiff
8,001 – 16,000	Hard
> 16,000	Very Hard

RELATIVE PROPORTIONS

Descriptive Term(s) (Components also Percent in Sample)	Sand & Gravel Percent of Dry Wt.	Fines Percent of Dry Wt.
---	-------------------------------------	-----------------------------

Trace	< 15	<5
Some	15 – 29	5 - 12
Modifier	> 30	> 12

RELATIVE DENSITY OF COARSE-GRAINED SOILS

N - (blows/ft)	Relative Density
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 49	Dense
50+	Very Dense

GRAIN SIZE TERMINOLOGY

Major Component	Size Range
Cobbles	12 in to 3 in
Gravel	3 in to #4 sieve
Sand	#4 to #200 sieve
Silt or Clay	Passing #200 sieve

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soil the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with only short-term observation.

DEFINITIONS OF ABBREVIATIONS

CR –	Core recovery, length of core recovered in each run compared to the length drilled expressed as percent
LL –	Liquid limit of specimen
N –	Number of blows to penetrate last 12 inches with 140-pound hammer in standard penetration test Blow count reported for each 6-inch interval on logs
PL –	Plastic limit of specimen
RQD –	Rock quality designation, aggregate length of core pieces greater than 4 inches long, expressed as percent of length drilled
TW –	Thin walled tube
SS –	Standard penetration test
NQ2 –	2 inches diameter core
CFA –	Continuous flight augers
HSA –	Hollow stem augers
EOB –	End of boring



SECTION 02365 TERMITE CONTROL

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Soil treatment below new slabs-on-grade.
 - 2. Soil treatment at new foundation perimeter.

1.02 REFERENCES

- A. United State Government, Environmental Protection Agency (EPA):
 - 1. Federal Insecticide, Fungicide and Rodenticide Act.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data: Manufacturer's specifications and technical data including the following.
 - 1. Indicate toxicant to be used, composition by percentage, dilution schedule, and intended application rate.
 - 2. Manufacturer's installation instructions.
 - 3. EPA registration number.
- C. Quality Control Submittals:
 - 1. Professional certifications.
- D. Contract Closeout Submittals: Submit in accordance with Section 01770.
 - 1. Project Record Documents: Record moisture content of soil before treatment, date and rate of application, areas of application, diary of meter readings and corresponding soil coverage.
 - 2. Special warranties.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.
- B. Installer's Qualifications: Firm experience in installation of systems similar in complexity to those required for this Project, plus the following.
 - 1. Acceptable to or licensed by manufacturer.
 - 2. Licensed by the state in which Project is located.
 - 3. Not less than 3 years experience with systems.
 - 4. Successfully completed not less than 5 comparable scale projects using this system.
- C. Product/Material Qualifications:
 - 1. Product shall be registered by EPA.
- D. Regulatory Requirements:
 - 1. Conform to requirements established by the state in which Project is located, for application licensing and authority to use toxicant chemicals.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
- B. Storage and Protection: Comply with manufacturer's recommendations.

1.06 SEQUENCING/SCHEDULING

- A. Coordinate soil treatment at foundation perimeter with finishing grading and landscaping Work to avoid disturbance of treated soil.

1.07 SPECIAL WARRANTIES

- A. Installer shall warranty installed system for a period of 5 years from the Date of Substantial Completion against all of the conditions indicated below. When notified in writing from the Owner, installer shall promptly, and without inconvenience and cost to the Owner, correct said deficiencies in accordance with the requirements of Document 00700, Paragraph 12.2.
1. Invasion or propagation of subterranean termites.
 2. Damage to building or building contents caused by termites.
 3. Repairs to building or building contents caused by termites.
 4. Complete retreatment shall be rendered upon third recurrence of subterranean termites.

1.08 MAINTENANCE

- A. Maintenance Service: Inspect Work annually during warranty period and report in writing to Owner.

PART 2 – PRODUCTS**2.01 MANUFACTURERS**

- A. Acceptable Manufacturers and Products:
1. BASF: Termidor 80 WG
 2. Bayer Environmental Services; Premis
 3. Univar USA Inc.; I-Maxx pro.
 4. Substitutions: Comply with Section 01630.

2.02 MIXES

- A. Mix toxicant in accordance with manufacturer's instructions.

PART 3 – EXECUTION**3.01 EXAMINATION**

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
1. Verify location of underground water and sewer utility lines.
 2. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protection: Protect areas not scheduled for treatment from exposure to toxicant.

3.03 INSTALLATION

- A. Comply with manufacturer's recommendations.
- B. Apply to both sides of new foundation walls to a depth equal to the bottom of footings.
1. Apply emulsion at a rate recommended by manufacturer but not less than 4 gallons per 10 lineal feet per foot of depth.
- C. Apply over granular base of new floor slabs prior to installation of vapor barrier and within 24 hours of placement of concrete.
1. Apply emulsion at a rate recommended by manufacturer but not less than 1-1/2 gallons per 10 square feet of granular base area.
 2. Ensure that granular base is covered with vapor barrier the same day emulsion is applied.
- D. Apply over subgrade of new concrete sidewalks and pavement adjacent to building and which are within 8 inches of building finish floor elevation.
1. Apply within 24 hours of placement of concrete.
 2. Apply emulsion at a rate recommended by manufacturer but not less than 1-1/2

- gallons per square feet of granular base area.
- E. Apply to soil within 3 feet of building perimeter to a depth of 18 inches, including area under sidewalks and pavement described in Paragraph 3.03 D. above.
 - F. Apply extra treatment to structure penetrations, pipes, and other soil penetrations.

3.04 FIELD QUALITY CONTROL

- A. Provide in accordance with Section 01400.
- B. Test: Test and record data required for Project Record Documents.
- C. Tagging: Install tag required by authority having jurisdiction.

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 08110 STEEL DOORS AND FRAMES

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Steel doors.
 - 2. Steel frames.
 - 3. Related accessories.

1.02 REFERENCES

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
- B. ANSI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors 2011.
- C. ANSI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames 2003 (R2009).
- D. ANSI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100) 2017.
- E. ANSI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames 2011.
- F. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames 2016.
- G. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.
- H. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames 2002.
- I. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames 2011.
- J. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies Current Edition, Including All Revisions.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data: Manufacturer's specifications and technical data including the following.
 - 1. Detailed specifications of construction and fabrication.
 - 2. Product data on factory finish primer.
 - 3. Manufacturer's installation instructions.
- C. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, and anchorage methods, plus the following specific requirements.
 - 1. Schedule doors and frames in format described in SDI 111-D, in numerical order utilizing Architect's door number.
 - 2. Indicate details, frame depths, gauges, and types.
 - 3. Indicate door elevations and cut-outs for glazing and louvers.
- D. Quality Control of Submittals:
 - 1. Submit manufacturer's certificate indicating that shop primer is suitable substrate for finish paint system specified under Section 09900.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products plus the following.

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1. Member of Steel Door Institute.
- B. Installer's Qualifications: Firm experienced in installation of systems similar in complexity to those required for this Project, plus the following.
 1. Acceptable to or licensed by manufacturer.
 2. Not less than 3 years experience with systems.
 3. Successfully completed not less than 5 comparable scale projects using this system.
- C. Regulatory Requirements:
 1. Comply with United States Americans With Disabilities Act (ADA) for mounting heights of hardware.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
- B. Storage and Protection: Comply with manufacturer's recommendations.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers and Products for Doors:
 1. Ceco Corporation: Imperial Series
 2. Mesker Door Inc.: NU Series Urethane Core
 3. Steelcraft: SZ Series.
 4. Substitutions: Comply with Section 01630.
- B. Acceptable Manufacturers for Frames:
 1. Ceco Corporation: Imperial Series
 2. Mesker Door Inc.: NU Series Urethane Core
 3. Steelcraft: SZ Series.
 4. Substitutions: Comply with Section 01630.

2.02 MATERIALS

- A. Cold Rolled Steel: ASTM A1008/A1008M, Commercial Steel (CS), Type B, for exposed applications.
- B. Zinc Coated Steel: ASTM A653/A653M, A60 coating.

2.03 DOOR FABRICATION

- A. Exterior Doors: Fabricate doors to comply with ANSI A250.8 Level 4, Model 2, seamless composite construction.
 1. Thickness: 1-3/4 inch.
 2. Door face: 14 gage zinc coated stretcher level steel.
 3. Internal construction: not less than 1500 pounds per square foot rigid polystyrene foam board bonded to each face sheet with adhesive.
 4. Top and bottom end closure: 18 gage flush channel.
 5. Edge design: Comply with ANSI A250.8, paragraph 2.3.1.3.
 6. Hardware preparation: Comply with ANSI/DHI A115 where applicable
 7. Hardware reinforcing: Comply with ANSI A250.8, Table 4.
 8. Fabricate doors for frame opening dimensions to allow for the tolerances specified under PART 3 of this Section.
- B. Tolerances: Comply with SDI 117.

2.04 FRAME FABRICATION

- A. Welded Frames: Fabricate to comply with ANSI A250.8, Face Welded Frames.
 - 1. Steel material.
 - a. Interior Frames: Cold rolled stretcher leveled steel.
 - b. Exterior frames: Zinc coated steel.
 - 2. Steel thicknesses:
 - a. Interior frames not over 4'-0" wide: 16 Gauge.
 - b. Interior frames over 4'-0" wide: 14 Gauge.
 - c. Exterior frames: 14 gage.
 - 3. Fabricate frames with 5/8 inch returns at wall backbends.
 - 4. Form neat mitered joint lines, including stops, at faces of frames at junction of head and jamb.
 - 5. Secure headers and jambs at corners either by internal or external welding of faces, with seamless face joints.
 - 6. Secure joints at jambs and headers and jambs and transom bars at rabbet either by tack welding on the inside of the profile or by mechanical interlock.
 - 7. Anchors:
 - a. Provide not less than 3 anchors per jamb, of not less than 18 gage steel.
 - b. Provide floor anchors of not less than 18 gage steel.
 - 8. Hardware preparation: Comply with ANSI/DHI A115 where applicable.
 - 9. Hardware reinforcing: Comply with ANSI A250.8, Table 4.
 - a. Upper hinge locations at openings scheduled to receive heavy weight hinges: High frequency preparation complying with SDI 125, Example A.

2.05 FACTORY FINISH

- A. Doors and Frames: After fabrication, clean, phosphate, treat, and dip or spray surfaces of door and frame with 1 coat rust inhibiting primer compatible with finish pain material specified in Section 09900.
 - 1. Comply with ANSI A224.1.

PART 3 – EXECUTION**3.01 EXAMINATION**

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Comply with the following.
 - 1. ANSI/DHI A115.IG.
 - 2. SDI 110.
- B. Install frames plumb, rigid, and in true alignment.
 - 1. Utilize temporary supports for frames installed prior to wall erection.
- C. Install doors plumb and in true alignment.
- D. Tolerances:
 - 1. Between door and frame: No more than 1/8 inch clearance at jambs and head.
 - 2. Between meeting edge of pairs of doors: Not more than 3/16 inch.
 - 3. Between bottom of door and threshold: Not more than 5/8 inch.

4. Between bottom of door and floor where no threshold is used: Not more than 5/8 inch.
5. Maximum diagonal distortion: 1/16 inch measured with straight edge, corner to corner.

3.03 ADJUSTING

- A. Adjust doors for smooth and balance movement.

END OF SECTION

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SECTION 08361 SECTIONAL OVERHEAD DOORS

PART – GENERAL

1.01 SUMMARY

- A. Section Includes:
 1. Sectional overhead insulated doors.
 2. Related accessories.

1.02 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM A653/A653M-03: Standard Specification for Steel Sheef, Zinc-Coated (Galvanized) or Zinc-Iron Allow-Coated (Galvanized by the Hopt-Dip Process).
- B. International Code Council, Inc.:
 1. International Building Code (IBC), Current Edition.

1.03 SYSTEM DESCRIPTION

- A. Design Requirements:
 1. Design exterior doors in accordance with IBC Current Edition to withstand minimum loads based on the following.
 - a. Wind design:
 - 1) Basic wind speed (3 second gust). 90 miles per hour.
 - 2) Exposure: C.
 - 3) Importance Factor: 1.00.
 - 4) Internal pressure coefficient.
 - b. Earthquake design:
 - 1) Seismic use group: Category I.
 - 2) Importance factor: 1.00.
 - 3) Spectrum response coefficients.
 - a) Sds: 0.241.
 - b) Sd1: 0.094
 - 4) 0.20 second spectrum acceleration (Ss): 0.226.
 - 5) 1.00 second spectrum acceleration (S1): 0.059.
 - 6) Soil class: D.
 - 7) Site coefficient:
 - a) Short period: 1.60.
 - b) 1 second period: 2.40.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data:
 1. Manufacturer's specifications and technical data for the following.
 - a. Doors.
 - b. Tracks.
 2. Manufacturer's installation instructions.
- C. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, plus the following specific requirements.
 1. Height and width dimensions, jamb conditions, and size and location of mounting bolts.

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- 2. Opening size.
- 3. Track, jambs, and hardware.
- 4. Panel configuration and gauge.
- D. Quality Control Submittals:
 - 1. Design data and calculations:
 - a. Design data and calculations shall be signed and sealed by engineer licensed in the state in which Project is located.
- E. Contract Closeout Submittals: Submit in accordance with Section 01770.
 - 1. Operating and maintenance manuals:
 - a. Include required lubrication and adjustments, complete parts list, name of nearest service contractor, and name of nearest parts supplier for each type of type of door specified.

1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.
- B. Installer's Qualifications: Firm experienced in installation of systems similar in complexity to those required for this Project, plus the following.
 - 1. Acceptable to or licensed by manufacturer.
 - 2. Not less than 3 years experience with systems.
 - 3. Successfully completed not less than 5 comparable scale projects using the system.
- C. Regulatory Requirements:
 - 1. Products requiring electrical connections: Provide products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Packaging and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
- B. Storage and Protection: Comply with manufacturer's recommendations.

PART 2 – PRODUCTS

2.01 MANUFACTURED UNITS

- A. Sectional Insulated Overhead Doors:
 - 1. Panel Thickness: 1-5/8 inches (41 mm).
 - 2. Exterior Surface: Ribbed, textured.
 - 3. Exterior Steel: 26ga. hot-dipped galvanized.
 - 4. End Stiles: 16 gauge.
 - 5. Spring Counterbalance: Sized to weight of the door, with a helically wound, oil tempered torsion spring mounted on a steel shaft; cable drum of diecast aluminum with high strength galvanized aircraft cable. Sized with a minimum 7 to 1 safety factor.
 - 6. Standard cycle spring: 10,000 cycles.
 - 7. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
 - 8. Thermal Values: R-value of 14.86; U-value of 0.067.
 - 9. Air Infiltration: 0.08 cfm at 15 mph; 0.08 cfm at 25 mph.
 - 10. Partial Glazing of Steel Panels: 1/2 inch (12.5 mm) Tempered Insulating Glass.
 - 11. Weather stripping:
 - a. Bottom section: Full length extruded flexible vinyl.

- b. Header section: Full length vinyl seal in extruded aluminum retainer.
 - c. Jambs: Full length vinyl seal in extruded aluminum retainer.
 - 12. Full vertical track: 16 gage galvanized steel reinforced with 13 gage galvanized steel angles.
 - 13. Hinges: 14 gage galvanized steel.
 - 14. Rollers: Full floating ball-bearing, with hardened steel races.
 - 15. Acceptable manufactures product:
 - a. Overhead Door Corporations: Model 591 Series
 - b. Comparable products of the following manufacturers.
 - 1) Clopay Corporation.
 - 2) Raynor Garage Doors.
 - 3) Haas Door
 - 4) Roll-Lite Overhead Doors.
 - 5) Wayne-Dalton Corp.
 - 6) Windsor Door.
 - 7) Substitutions: Comply with Section 01630.
- B. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.
 - 1. Entrapment Protection: Required for momentary contact, includes radio control operation.
 - a. Photoelectric sensors monitored to meet UL 325/2010.
 - 2. Operator Controls:
 - a. Keypad operator at exterior. Coordinate mounting location with Owner.
 - b. Provide two (2) remote control operators
 - b. Surface mounting interior location as directed by Owner.

2.02 FACTORY FINISH

- A. Sectional Overhead Insulated Door Panels:
 - 1. Primer: Epoxy primer, 2.5 to 3.5 mils dry film thickness.
 - 2. Top coat: Thermo-setting polyester paint, 0.60 mils dry film thickness.
 - a. Color: As selected by Architect from manufacturer's standard colors.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Comply with manufacturer's instructions.
- B. Set tracks level and plumb, and in proper alignment with wall.
 - 1. Securely anchor assembly in opening.
 - 2. Brace door tracks which are suspended from structure.
 - a. Secure tracks to structural members only.

3. Support tracks to accommodate size and weight of door and to prohibit doors from sagging, and to prohibit doors from swaying and vibrating when doors are being opened or closed.
- C. Tolerances:
1. Maximum variation from plumb: 1/16 inch in height of door.
 2. Maximum variation from level: 1/16 inch in width of door.
 3. Longitudinal or diagonal warp: Plus or minus 1/8 inch per 10 feet straight edge.

3.03 ADJUSTING

- A. Adjust mechanisms so moving parts operate smoothly, free from warp, twist, or distortion, and so safety features function properly.

END OF SECTION

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SECTION 08710 DOOR HARDWARE

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Door hardware.
 - 2. Thresholds.
 - 3. Weatherstripping.
 - 4. Related accessories.
- B. Products Specified But Not Installed Under This Section.
 - 1. Furnish templates to Section 08110 for preparation of doors and frames.
- C. Related Sections:
 - 1. Section 08110 – Steel Doors and Frames.

1.02 REFERENCES

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
- B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors 2011.
- C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames 2003 (R2009).
- D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100) 2017.
- E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames 2011.
- F. ASTM A480/A480M - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip 2020a.
- G. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- H. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable 2021.
- I. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength 2018a.
- J. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames 2016.
- K. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.
- L. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames 2002.
- M. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames 2011.
- N. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies Current Edition, Including All Revisions.

1.03 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data: Manufacturer's specifications and technical data including the following.
 - 1. Hardware schedule:

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- a. List doors in order of door numbers indicated on Drawings.
 - b. Completely list door characteristics and hardware requirements.
 - c. Indicate locations and mounting heights of each type of hardware.
- 2. Manufacturer's catalog cut sheets on each item of hardware.
 - a. Annotate manufacturer's model numbering systems to explain meaning.
 - b. Clearly and explicitly demonstrate compliance with specified requirements.
- 3. Test reports: Submit certified test reports for closer operating cycles.
- 4. Keying schedule:
 - a. Schedule meeting with Owner and Architectural Hardware Consultant within 30 days after Notice to Proceed to establish keying schedule.
 - b. Submit final keying schedule for Owner's approval within 10 days of meeting.
- C. Contract Closeout Submittals: Submit in accordance with Section 01770.
 - 1. Operation and maintenance data.
 - a. Include data on operating hardware, parts list, lubrication requirements, and inspection procedures related to preventative maintenance.
 - 2. Special warranties.
 - 3. Certificates:
 - a. Signed by Owner indicating Owner's receipt of keys, permanent cores, and maintenance tools.
 - 4. Field Quality Control submittals as specified in PART 3 of this section.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.
- B. Hardware Supplier: Employ Architectural Hardware Consultant (AHC) to schedule and coordinate hardware, and to assist Owner in establishing Keying schedule. Contractor shall work with Owner's existing key way types.
- C. Installer's Qualifications: Firm experienced in installation of systems similar in complexity to those required for this Project, plus the following.
 - 1. Not less than 3 years experience with systems.
 - 2. Successfully completed not less than 5 comparable scale projects using this system.
- D. Regulatory Requirements:
 - 1. Comply with United States Americans With Disabilities Act (ADA) for mounting heights of hardware.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
 - 1. Package hardware items individually.
 - 2. Label and identify package with door opening number to match Hardware schedule.
 - 3. Deliver keys to Owner by security shipment direct from hardware supplier.
- B. Storage and Protection: Comply with manufacturer's recommendations.

1.06 SPECIAL WARRANTIES

- A. Manufacturer shall warranty installed system for a period of 10 years from the Date of Substantial Completion against all of the conditions indicated below. When notified in writing from the Owner, manufacturer shall promptly, and without

inconvenience and cost to the Owner, correct said deficiencies in accordance with the requirements of Document 00700, Paragraph 12.2.

1. Failure of door closers.

1.07 MAINTENANCE

A. Materials:

1. Provide special wrenches and tools applicable to each different or special hardware component.
2. Provide maintenance tools and accessories supplied by hardware component manufacturer.

PART 2 – PRODUCTS

2.01 HINGES

A. Heavy Weight Hinge, Stainless Steel: ANSI/BHMA A156.1, A8111, Grade 1; ball bearing; square corner; button tip.

1. Size: 4-1/2 inch unless other wise indicated on Part 3 of this Section.
2. Acceptable manufacturers and product:
 - a. Stanley Hardware: FBB199.
 - b. Hager Hinge Co.: BB1199.
 - c. McKinney, Essex Industries Inc.: T4A3786.
 - d. Substitutions: Comply with Section 01630.

2.02 LOCKSETS AND LATCHSETS

A. Push Button Lock:

1. Acceptable manufacturer and product:
 - a. Peach Grove Simplex Lock L1021

2.03 THRESHOLDS AND WEATHERSTRIPPING

A. Door Threshold: ANSI/BHMA A156.21.

1. Acceptable manufacture and product:
 - a. Pemko: 170A.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.
 - 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.

B. Gaskets:

1. Finish: 630
 - a. Pemko: S88D.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.
 - 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.

C. Weatherstrip:

1. Finish: 630
 - a. Pemko: 316DV.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.

- 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.
- D. Automatic Door Bottom: Full-mortise type.
 - 1. Finish: 630
 - a. Pemko: 411DPKL.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.
 - 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.
- E. Overhead Drip Cap:
 - 1. Finish: 630
 - a. Pemko: 346D.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.
 - 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.
- F. Door Sweep/Drip:
 - 1. Finish: 630
 - a. Pemko: 3452DV.
 - b. Comparable products of the following manufacturers:
 - 1) Hager Hinge Company.
 - 2) National Guard Products, Inc.
 - 3) Reese Enterprises, Inc.
 - 4) Zero International, Inc.
 - c. Substitutions: Comply with Section 01630.

2.10 ACCESSORIES

- A. Fasteners: Provide fasteners of proper type, size, material, and finish as required for installation of hardware.
 - 1. Exposed screws: Phillips head type.

2.11 KEYING

- A. Key as directed by Owner to existing keying system.
- B. Hardware supplier is to furnish cores/cylinders of same type and keyway as existing system which is BEST, verify with Owner.

2.12 FACTORY FINISH

- A. Finish as indicated in Schedule at end of this Section, in accordance with ANSI/BHMA A156.18.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Comply with manufacturer's instructions, and the requirements of ANSI/DHI A115.1G, and BHMA.

1. Install using templates provided by hardware item manufacturer.
- B. Install hardware after finishing of substrate has been completed.
- C. Install locksets so key enters cylinder with smooth edge of key down.
- D. Mounting heights for hardware from finish floor to center of hardware item shall be in accordance with the reference standards listed in PART 1 of this Section.
- E. Cut and fit thresholds to door frame profiles.
 1. Set in full bed of sealant.
- F. Seal weather protection components, such as drip cars, astragals and sweeps, attached to exterior side of door and frame.
- G. Set hinges with a thin layer of low modulus silicone rubber sealant between hinge and door, and between hinge and frame.

3.03 FIELD QUALITY CONTROL

- A. Adjust door closers to comply with manufacturer's instructions.
- B. Adjust locksets and latchsets for smooth operation, and for complete engagement into strikes.

3.05 CLEANING

- A. Clean hardware with materials and methods as recommended by hardware manufacturer.

3.06 SCHEDULES

- A. Hardware Set 1: Each door to have the following.
 1. 3 each hinge.
 2. 1 each push button lock: L1021 B 26D 41 26D.
 3. 1 each Lock astragal.
 4. 1 each Door threshold.
 5. 1 each Automatic door bottom.
 6. 1 set Weatherstrip: Head and jambs.
 7. 1 each Overhead drip cap, full width of frame.
 8. 1 each Door sweep/drip.

END OF SECTION

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SECTION 09900 PAINTS AND COATINGS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Surface preparation.
 - 2. Painting and finishing of interior and exterior surfaces.
- B. Related Sections:
 - 1. Section 08110 – Steel Doors and Frames.
 - 3. Section 13121 – Pre-Engineered Buildings.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM D16-91: Standard Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
 - 2. ASTM D523-89: Standard Test Method for Specular Gloss.
 - 3. ASTM D3359-92a: Standard Test Methods for Measuring Adhesion by Tape Test.
 - 4. ASTM D4258-83 (1992): Standard Practice for Surface Cleaning Concrete for Coating.
 - 5. ASTM D4259-88 (1992): Standard Practice for Abrading Concrete.
 - 6. ASTM D4261-83 (1988): Standard Practice for Surface Cleaning Concrete Unit Masonry for Coating.
 - 7. ASTM D4263-83 (1993)e1: Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.
 - 8. ASTM D4442-92: Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials.
 - 9. ASTM D4444-92: Standard Test Methods for Use and Calibration of Hand-Held Moisture Meters.
- B. Structural Steel Painting Council (SSPC):
 - 1. SSPC-SP1-91: Solvent Cleaning.
 - 2. SSPC-SP3-91: Power Tool Cleaning.

1.03 DEFINITIONS

- A. Sheen: Specular gloss readings at 60 degrees geometry, in accordance with ASTM D523, as follows:
 - 1. Eggshell: 10 to 20.
 - 2. Satin: 30 to 40.
 - 3. Semi-gloss: 60 to 65.
 - 4. Gloss: Over 65.
- B. DFT: Dry film thickness.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data: Manufacturer's specifications and technical data including the following:
 - 1. Painting Schedule: Submit in format to match that specified in Part 3 of this Section.
 - a. Include proposed product manufacturer's name, product name, and product label or stock number for each application and coat.
 - 2. Product data sheet on each product.
 - 3. Material safety data sheet on each product.
 - 4. Manufacturer's installation instructions.

- C. Color Samples: Two sets of samples for color selection of the following:
 - 1. Paint: 3 inch by 4 inch size samples of paint manufacturers standard colors.
- D. Contract Closeout Submittals: Submit in accordance with Section 01770.
 - 1. Certificates: Signed by Owner indicating receipt of extra materials.

1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.
- B. Installer's Qualifications: Firm experienced in installation of systems similar in complexity to those required for this Project, plus the following:
 - 1. Not less than 3 years experience with systems.
 - 2. Successfully completed not less than 5 comparable scale projects using this system.
- C. Regulatory Requirements:
 - 1. Paint and finish products shall comply with the United States Clean Air Act for maximum Volatile Organic Compound (VOC) content, as specified in PART 2 of this Section.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
 - 1. Labeling: Include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, color designation, instructions for mixing and reducing (if applicable), analysis of contents, instructions for application, and instructions for cleanup.
- B. Storage and Protection: Comply with manufacturer's recommendations.
 - 1. Take measures to prevent fire hazards and spontaneous combustion.
 - 2. Remove oily rags, waste, and other potentially combustible items from the building at the end of each day.

1.07 PROJECT CONDITIONS

- A. Environmental Requirements:
 - 1. Maintain ambient temperature above 55 degrees F. 24 hours prior to, during, and 48 hours after installation, unless higher temperatures are required by paint manufacturer's instructions.
 - 2. Do not apply exterior paint or coatings during rain or snow, or when relative humidity is outside humidity range required by paint product manufacturer.
- B. Lighting Requirements:
 - 1. Provide, or cause to be provided, not less than 80 foot candles of illumination, as measured at mid-height of substrate surface being painted or finished.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide The Sherwin-Williams Company; products indicated or comparable product from one of the following:
 - 1. Benjamin Moore and Company.
 - 2. ICI Paints World Group.
 - 3. Pratt and Lambert, Inc.
 - 4. Pittsburg Paints.
 - 5. Rust-Oleum Corporation.
 - 6. Substitutions: Comply with Section 01630.

2.02 ACCESSORIES

- A. Commercial quality materials, including linseed oil, shellac, turpentine, paint thinners, and other materials not specifically indicated in this Section but required to achieve the finishes specified.

2.03 MIXES

- A. Coatings: Ready mixed, except field catalyzed coatings.
 - 1. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.

PART 3 – EXECUTION**3.01 EXAMINATION**

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 - 1. Verify compatibility of substrate with specified coating system in accordance with ASTM D3359.

3.02 PREPARATION

- A. Protection: Protect surfaces not being painted concurrently, or not to be painted, and finished Work of other Sections.
 - 1. Remove removable device plates, escutcheons, hardware, light fixture trim, and similar items prior to preparing surfaces or finishing.
 - a. Reinstall after painting is complete and dry.
 - 2. Cover fire labels and hardware items that cannot be removed, before painting.
 - a. Remove protective coverings when painting is complete and dry.
- B. Surface Preparation:
 - 1. Prepare surfaces in accordance with paint manufacturer's instructions.
 - 2. Clean surfaces to receive paint free of dust, dirt, and other surface contaminants which may adversely affect adhesion or appearance.
 - 3. Correct minor defects in surfaces to receive paint.
 - 4. Shellac and seal marks on surfaces, which may bleed through surface finishes.
 - 5. Wire brush surface to remove dirt, loose mortar, and other foreign materials.
 - 6. Metal surfaces:
 - a. Shop-primed steel:
 - 1) Remove loose primer and rust by hand or power tools.
 - 2) Feather edges to make touch-up patches inconspicuous.
 - 3) Solvent clean per SSPC-SP1.
 - 4) Touch up abraded area with rust-inhibitive primer compatible with shop primer.
 - b. Bare steel: SSPC-SP3 power tool clean.
 - 1) Apply primer within 3 hours of cleaning.
- C. Primer:
 - 1. When recommended by paint manufacturer for surface being painted, provide primer or undercoat, whether specified in this Section or not.
 - 2. Where PART 3 of this Section specified the first coat to be primer, this primer coat may be omitted on factory primed surfaces where the factory primer is compatible with the second and third coat paint products, provided the manufacturer of the second and third coat paint products does not recommend the field applied primer first coat.

3.03 APPLICATION

- A. Apply products in accordance with manufacturer's instructions with suitable brushes or rollers.

1. Keep brushes and rollers clean, free from contaminants, and suitable for the finish required.
2. Use of spray equipment is not allowed, unless approved in Writing by Architect.
- B. Apply products at rates recommended by manufacturer to achieve dry film thickness (DFT) specified in PART 3 of this Section.
 1. Use materials without adulteration.
- C. Slightly vary the color of successive coats under the finish coats.
- D. Comply with recommendations of material manufacturer for drying time between succeeding coats.
- E. Sand and dust between each coat to remove defects.
- F. Apply finish coats smooth, free from brush marks, streaks, laps, pile-up of paints, runs, sags, holidays, air bubbles, and excess roller stipple.
 1. Apply additional finish coats to entire surface if undercoats show through, and to correct defects.
- G. Make edges of paint adjoining other materials or colors clean and sharp, with no overlap.

3.04 FIELD QUALITY CONTROL

- A. Provide in accordance with Section 01400.
- B. Inspections:
 1. Arrange for Architect to inspect each painted surface immediately prior to application of each coat.

3.05 CLEANING

- A. As Work proceeds, promptly remove paint where spilled, splashed, or spattered.
- B. Touch up and restore finishes where damaged.

3.06 PAINTING SCHEDULE

Waterbased/Alkyd Urethane System: over shop coat primer.

- a. Prime Coat: Primer, rust-inhibitive, water based:
 - 1) S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series, at 5.0 to 10 mils wet, 2.0 to 4.0 mils dry.
- b. Intermediate Coat: Water-based acrylic-alkyd, exterior, matching topcoat.
- c. Topcoat: Water-based alkyd-urethane, semi-gloss, exterior:
 - 1) S-W Pro Industrial Waterbased Alkyd Urethane Semi-Gloss, B53-1150 Series, at 4.0 mils wet, 1.4 mils dry, per coat.

Galvanized and Zinc Rich Metal Fabrications:

Waterbased/Alkyd Urethane System: over shop coat primer.

- d. Prime Coat: Primer, rust-inhibitive, water based:
 - 1) S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series, at 5.0 to 10 mils wet, 2.0 to 4.0 mils dry.
- e. Intermediate Coat: Water-based acrylic-alkyd, exterior, matching topcoat.
- f. Topcoat: Water-based alkyd-urethane, semi-gloss, exterior:
 - 1) S-W Pro Industrial Waterbased Alkyd Urethane Semi-Gloss, B53-1150 Series, at 4.0 mils wet, 1.4 mils dry, per coat.

3.07 COLOR SCHEDULE

- A. Color Schedule will be prepared by Architect and submitted to Contractor prior to commencement of Work of this Section.
 1. Architect reserves the option to select colors offered by any of the manufacturers specified in this Section. Selection will not be limited to colors offered by manufacturer of products whose paint is being supplied for this Project.

END OF SECTION

Attachment: SPC_21022_002-RCFD1 (13187 : Request permission to solicit bids for fire station construction)

SECTION 13121 PRE-ENGINEERED BUILDINGS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Pre-engineered, shop fabricated metal building, complete with the following components
 - a. Structural framing.
 - b. Roof and wall insulation.
 - c. Prefinished roofing and siding.
 - d. Metal flashings.
 - e. Gutters and downspouts.
 - f. Other materials and related accessories.

1.02 REFERENCES

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
- B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for
- C. Steel Doors, Frames and Frame Anchors 2011.
- D. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames 2003 (R2009).
- E. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100) 2017.
- F. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames 2011.
- G. ASTM A480/A480M - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip 2020a.
- H. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- I. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable 2021.
- J. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength 2018a.
- K. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames 2016.
- L. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.
- M. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames 2002.
- N. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames 2011.
- O. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies Current Edition, Including All Revisions.
- P. International Building Code (IBC), Current Edition.
- Q. MBMA Low-Rise Building Systems Manual, Current Edition.
- R. SMACNA Architectural Sheet Metal Manual, Current Edition
- S. SSPC-SP3-2000: Power Tool Cleaning.
- T. UL580, 1994: Test for Uplift Resistance of Roof Assemblies.

1.03 SYSTEM DESCRIPTION

- A. Building Type: Clear-span, single gable, rigid frame type pre-engineered metal building with tapered columns and by-pass type girts, including, but not limited to, the following components.

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1. Variable-depth columns and roof beam sections.
2. Endwall beams, post, and girts.
3. Windbracing.
4. Seismic Bracing.
5. Lateral bracing.

B. Design Requirements:

1. Design criteria: Drawings and specifications indicate size, profiles, and dimensional requirements of pre-engineered building system. Manufacturer shall supply components as indicated on Drawings and as specified under this Section. Minor deviations in size, profiles, and dimensions which do not change design concept or intended performance as determined by Architect will be acceptable.
2. Design pre-engineered building system in accordance with IBC as follows.
 - a. Gravity Design:
 1. Dead load: Self Weight of building system
 2. Live Load: 20 pounds per square foot non reducible.
 3. Collateral load: 10 pounds per square foot
 - b. Snow design:
 1. Ground snow load (Pg): 20 pounds per square foot.
 2. Flat roof snow load (Pf): 20 pounds per square foot.
 3. Drifting snow load: In accordance with ASCE 7-02
 4. Exposure Factor (Ce): 1.0.
 5. Importance factor: 1.00.
 6. Thermal factor (Ct): 1.00.
 - c. Wind Design:
 1. Basic wind speed (3 second gust). 90 Miles per hour.
 2. Exposure: C.
 3. Importance Factor: 1.00.
 4. Internal pressure coefficient: Plus or minus 0.55.
 - d. Earthquake design
 1. Seismic use group: Category I.
 2. Importance Factor: 1.00.
 3. Spectrum response coefficients:
 - a. Sds: 0.241.
 - b. Sd1: 0.094
 4. 0.20 second spectrum acceleration (Ss): 0.226.
 5. 1.00 second spectrum acceleration (S1): 0.059.
 6. Soil Class: D.
 7. Site coefficient:
 - a. Short period : 1.60.
 - b. 1 second period: 2.40.
 8. Seismic design category: B.
3. Design roof systems to comply with the following additional loads and requirements:
 - a. Support 200 pound load distributed evenly over 1 foot square area centered between purlins without exceeding panel deflection to span ration of L/240 in a two-span condition.
 - b. UL wind uplift rating of UL Class 90.
 - c. Additional collateral loads: 5 pounds per square foot.
 - d. Overhead door tracks: As indicated on Drawings.
4. Design assembly to accommodate movement of components without buckling, failure of joint seals, undue stress on fasteners or other deterioration

effects, when subject to a temperature range of minus 20 degrees F. to 100 degrees F.

- C. Performance Requirements:
 - 1. Maximum deflections:
 - a. Horizontal deflection of columns and girt members: L/180
 - b. Vertical deflection of roof members: L/180
 - c. Horizontal Deflection: H/100
 - 2. Wind bracing: Attach to columns on north, east, south, and west walls.
 - 3. Roof insulation system: Comply with the following OSHA requirements.
 - a. Through fall protection: 29 CFR-1926.501, 1926.760.
 - b. Protection from falling objects: 29 CFR-1926.759.
 - c. Protection from falls through roof openings: 29 CFR-1926.759.
 - d. Product-related project safety training: 29 CFR-1926.761
 - e. Product-related project specific safety plan: 29 CFR-1926.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01330 unless otherwise indicated.
- B. Product Data: Manufacturer's specifications and technical Data on manufactured items including the following.
 - 1. Detailed specifications of construction and fabrication.
 - 2. Manufacturer's installation instructions.
- C. Shop Drawings: Indicate description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, and installation procedures, plus the following specific requirements.
 - 1. Anchor bolt settings.
 - 2. Roof framing plan
 - 3. Wall framing elevations.
 - 4. Cross sections
 - 5. Roof plan indicating all penetrations.
 - 6. Construction details, sizes of metal sections, thickness of metals, profiles, camber, holes, attachments, dimensions, field joints, finishes, and Work to be built-in or provided by other Sections.
 - 7. Welding: Indicate welded connections, both shop and field, using standard AWS A2.4 welding symbols. Indicate type, size, and net weld lengths.
 - 8. Reactions supported by foundations.
 - 9. Prepare shop drawings at the following scales.
 - a. Plans: Not less than 1/8 inch = 1'-0"
 - b. Sections and Details: Not less than 1/2" = 1'-0"
 - 10. Do not reproduce Contract Documents in whole or in part for use as shop drawings.
 - 11. Shop Drawings shall be signed and sealed by engineer licensed in the state in which Project is located.
- D. Samples
 - 1. Submit 2 samples, 6 inches by 6 inches in size, of the following.
 - a. Roofing panel.
 - b. Wall panel.
 - c. Liner panel.
- E. Color Samples: Two sets of samples of the following.
 - 1. 8 inches by 10 inches sample of pre-finished wall panel material for color selection by Architect.
 - 2. 8 inches by 10 inches sample of pre-finished roof panel material for color selection by Architect.

3. 3 inches by 5 inches sample of snow guard material for color selection by Architect.
- F. Quality Control Submittals
 1. Statement of qualifications of manufacturer.
 2. Test reports: Certified test reports indicating compliance with requirements specified in this Section, including the following.
 - a. Mill reports on each type of steel, including chemical and physical properties.
 - b. High strength bolts, including nuts and washers.
 3. Certificates:
 - a. Written certification that manufacturer is certified in Category MB of AISC Quality Assurance Program.
 - b. Written certification prepared and signed by registered professional engineer licensed in the state in which Project is located, stating building system design and metal roof system design, including panels, clips, and support system components, meet design and performance requirements specified PART1 of this section.
 - c. Professional certificates: Welders certification indicating successful completion of AWS qualification Test.
 4. Design data and calculations:
 - a. Design data and calculations shall be signed and sealed by engineer licensed in the state in which Project is located.
 5. Copy of UL 580, Class 90 wind uplift resistance rating for roof system.
 6. Manufacturer's filed reports:
 - a. Roof inspection report detailing conditions requiring maintenance.
 7. Field quality control submittals are specified under PART 3.
- G. Contract Closeout Submittals: Submit in accordance with Section 01770.
 1. Special warranties.

1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products, plus the following.
 1. Certified in Category MB of AISC Quality Assurance Program.
- B. Installers Qualifications: Firm experience in installation of systems similar in complexity to those required for this Project, plus the following.
 1. Acceptable to or licensed by manufacturer.
 2. Not less than 3 years experience with systems.
 3. Successfully completed not less than 5 comparable scale projects using this system.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
 1. Supply setting templates to appropriate Sections for items required to be cast into concrete or embedded in masonry.
- B. Storage and Protection: Comply with manufacturer's instructions plus the following.
 1. Store steel materials off ground.
 2. Do not store materials on building structure in a manner which might cause distortion or damage to members or supporting structure.

1.07 PROJECT CONDITIONS

- A. Environmental Requirements: Comply with sealant manufacturer's recommendations for maximum and minimum application temperatures and humidity.

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1.08 SPECIAL WARRANTIES

- A. Manufacturer shall warranty installed system for the period of 20 years from the Date of Substantial Completion against all of the conditions indicated below. When notified in writing from the Owner, manufacturer shall promptly and without inconvenience and cost to the Owner, correct said deficiencies in accordance with the requirements of Document 00700, Paragraph 12.2.
1. Watertight condition.
 2. Faulty material and workmanship.
 3. Finish coating shall not peel, blister, chip, crack, or check.
 4. Finish coating color shall not change in excess of 5 delta E Units(Hunter) as calculated in accordance with ASTM D2244 in accordance with AAMA 2605.
 5. Finish coating shall not chalk more than represented by a No, 8 rating based on ASTM D4214 in accordance with AAMA 2605.
 6. Finish coating shall retain not less than 30 percent gloss in accordance with AAMA 2605.
 7. Finish coating shall not erode more than 10 percent in accordance with AAMA 2605.

PART 2 – PRODUCTS**2.01 MANUFACTURERS**

- A. Acceptable Manufacturers:
1. Star Building Systems.
 2. Butler Manufacturing Company.
 3. Ceco Buildings Division.
 4. Nucor Building Systems.
 5. Varco-Pruden Buildings.
 6. Behlen Manufacturing Company.
 7. American Buildings Company.
 8. Alliance Steel Building Systems.
 9. United Structures of America.
 10. Chief Buildings.
 11. Substitutions: Comply with Section 01630.

2.02 MATERIALS

- A. Hot-Rolled Structural Steel Shapes, Bars, and Plates: ASTM A36/A36M or ASTM A529/A529M.
- B. Cold-Rolled Structural Steel Shapes, Bars, and Plates: ASTM A568/A568M.
- C. Hot-Rolled Steel Sheet: ASTM A568/A568M.
- D. Cold-Rolled Steel Sheet: ASTM A568/A568M.
- E. High-Strength Threaded Fasteners: Heavy hexagon structural steel bolts and nuts, with hardened direct tension indicating washers.
1. Quenched and tempered medium-carbon bolts, nut, and washers: ASTM A325, load indicator type.
 2. Quenched and tempered alloy bolts, nuts, and washers: ASTM A490.

2.03 STRUCTURAL FRAMING

- A. Rigid Frames: Fabricate from hot-rolled structural steel shapes; factory welded built-up I-beam shape consisting of tapered or parallel flange beams, straight interior and sidewall columns, and by-pass girts.
- B. Primary Endwall Framing:

1. Endwall columns: Built-up factory welded steel I-shape or cold-formed steel C-sections.
2. Endwall beams: Built-up factory welded steel I-shape or roll-formed steel C-section.
- C. Secondary Framing:
 1. Roof purlins: Built-up factory welded steel I-Shape or roll-formed steel C-Sections or steel Z-shaped sections.
 2. Sidewall girts: Built-up factory welded steel I-shape or roll-formed steel C-sections or steel Z-shaped sections.
 3. Endwall girts: Built-up factory welded steel I-shape or roll-formed steel C-sections or steel Z-shaped sections.
 4. Eave struts: Roll-formed steel unequal flange C-sections.
 5. Window subframes: Roll-formed steel C-sections or steel Z-sections.
- D. Wind Bracing: ASTM A36/A36M adjustable threaded steel rod.
- E. Framed Openings: Galvanized steel components designed to carry specified loads and to accommodate doors and windows specified under other Sections.

2.04 ROOF COMPONENTS

- A. Roof Panels:
 1. Material: ASTM A653/A653M, Grade C hot dipped galvanized steel with G90 zinc coating.
 - a. Gage: Not less than 24.
 2. Length: Maximum length up to 40 feet.
 3. Panel width: 24 inches.
 4. Profile: Factory roll-formed, 2 inches high standing seams spaced 24 inches on center, with cross flutes spaced 6 inches on center perpendicular to standing seams, and with concealed attachment clips.
 5. Sidelaps: Full double lock (Pittsburgh) seam formed to provide interlocking lap with sealant recess.
 6. Endlaps: 6 inches.
 - a. Factory pre-punched to provide for expansion and contraction.
 - b. Locate endlaps over framing member.
 7. Purlin insulation spacer blocks: Manufacturer's standard system to eliminate thermal short circuits between purlins and roof panels.
 - a. Provide at each purlin location.
- B. Fastening Clips: Concealed steel clip providing thermal expansion and contraction.
 1. Finish: Hot-dipped galvanized, G60.
- C. Ridge Panels: One piece, matching material and slope of roof panel.
- D. Flashing: Match roof panel material.
- E. Flexible Closure Strips: Closed-cell expanded cellular rubber, extinguishing.
 1. Cut or premolded to match profile of roofing panels.

2.05 WALL COMPONENTS

- A. Wall Panels:
 1. Material: ASTM A653/A653M Grade C hot dipped galvanized steel with G90 zinc coating.
 - a. Gage: 26.
 2. Length: One piece from base to eave, as indicated on Drawings.
 3. Panel width: 36 inches.
 4. Profile: Factory roll-formed with 1-1/2 inch high corrugations spaced 12 inches on center and two minor corrugations between each pair of major corrugations.
 5. Sidelaps: 1 corrugation.
 6. Ends: Factory prepunched to match prepunched holes in structural.

7. End closures: Metal and foam.
- B. Liner Panel: ASTM A653/A653M, Grade E hot dipped galvanized steel with G90 zinc coating, roll formed steel, roll formed to cover 30 inch width, with two 9/16 inch high major corrugations spaced 2-1/2 inches on center.
 1. Thickness: 28 gage.
 2. Finish: Hot-dipped galvanized, G60.
- C. Flashing: Match wall panel material.
 1. Gage: 26.
- D. Metal Trim: Match wall panel material.
 1. Gage: 26.
- E. Flexible Closure Strips: Closed-cell expanded cellular rubber, extinguishing.
 1. Cut or premolded to match profile of wall panels.
 2. Provide at top and bottom of wall panels.
- F. Fasteners: Galvanized steel; size and type as recommended by manufacturer, with neoprene washers.
 1. Finish: Dichromate.
 2. Color: Match wall panel.

2.06 ACCESSORIES

- A. Gutters: ASTM A653/A653M Grade C hot dipped galvanized steel with G90 zinc coating.
 1. Size: In accordance with SMACNA Architectural Sheet Metal Manual, maximum storm intensity of 10 inches per hour.
- B. Downspouts: ASTM A653/A653M Grade C hot dipped galvanized steel with G90 zinc coating.
 1. Size: In accordance with SMACNA Architectural Sheet Metal Manual, maximum storm intensity of 10 inches per hour.
- C. Metal Accessories: Provide sheet metal clips, straps, anchoring devices, and similar accessories units as required for installation of Work.
 1. Match material being installed or compatible non-corrosive metal as recommended by sheet metal manufacturer.
 2. Size and gauge as required for application.
- D. Insulation:
 1. Thermal resistance: R Value of not less than 3.14 per inch at 75 degrees F. mean temperature when tested in accordance with ASTM C518.
 2. Vapor barrier: White reinforced polyethylene.
 - a. Water vapor transmission rate: 0.02 when tested in accordance with ASTM E96.
 3. Flame spread rating of composite insulation and vapor barrier: Not more than 25 when tested in accordance with ASTM E 84.
 4. Smoke development rating of composite insulation and vapor barrier: Not more than 50 when tested in accordance with ASTM E84.
 5. Thermal break: 3/8 inch thick polystyrene thermal block.
 6. Roof straps: Galvanized steel.
 - a. Finish: Primed and painted to match vapor barrier.
 7. Fasteners: Self drilling type with sealing washers.
 - a. Finish: Match vapor barrier at exposed locations.
 8. Sealant: As recommended and supplied by insulation manufacturer.
 9. Thickness:
 - a. Roof: Comply with ASHRAE 90.1 but not less than 10 inches.
 - b. Walls: Comply with ASHRAE 90.1 but not less than 8 inches.
 10. Layers:
 - a. Roof: Double.
 - b. Walls: Single.

- 11. Acceptable manufacturers and product:
 - a. Thermal Design, Inc. Simple Saver System.
 - b. Substitutions: Comply with Section 091630.
- E. Insulation Fasteners: Prefinished galvanized steel system designed to support insulation.
 - 1. Color: White.
- F. Shop Primer:
 - 1. Steel: Manufacturer's standard rust inhibitive primer compatible with finish paint material specified under Section 09900.
- G. Sealant: Low-Modulus Silicone Rubber Sealant as specified under Section 07920.

2.07 FABRICATION

- A. Comply with AISC Specifications for the Structural Steel for Buildings, Allowable Stress Design and Plastic Design.
- B. General:
 - 1. Shop fabricate and assemble structural assemblies to greatest extent possible.
 - 2. Fabricate for delivery sequence which will expedite erection and minimize field handling of materials.
 - 3. Mark and match-mark materials for field assembly.
 - 4. Provide bolt holes for structural and non-structural steel items.
 - a. Cut, drill, or punch holes perpendicular to metal surfaces.
 - b. Do not flame cut holes.
 - c. Do not enlarge holes by burning.
 - d. Drill holes in bearing plates.
- C. Connections:
 - 1. Provide high-strength threaded fasteners for principal bolted connections.
 - a. Provide unfinished threaded fasteners only for bolted connections of secondary framing members to primary members (purlins, girts, and other framing members taking only nominal stresses) and for temporary bracing to facilitate erection.
 - 2. Welding:
 - a. Comply with AWS D1.1.
 - b. Assemble and weld built-up sections using methods which will produce true alignment of axis without warp.
 - c. Grind welds smooth and flush with adjacent surfaces at exposed locations.
 - d. Repaint welds with primer to match adjacent surfaces.
- D. When cutting, shearing, punching, and forming, leave clean, true, uniform lines and surfaces, free from buckles and twist.
 - 1. Remove burrs from cut edges.
- E. Supply components required for anchorage of fabrications.
 - 1. Fabricate anchorage and related components of same material and finish as fabrication, except as otherwise indicated on Drawings.
- F. When shop finishing is specified, completely assemble, including welding of units, before start of finishing operations.

2.08 FACTORY FINISH

- A. Exposed Steel:
 - 1. Apply shop primer to steel fabrications except the following.
 - a. Surfaces in contact or embedded in concrete.
 - b. Surfaces requiring field welding.
 - c. Surfaces requiring high-strength bolting with friction-type connections.
 - d. Surfaces scheduled for galvanizing.
 - e. Non-ferrous metals not scheduled for painting.

2. Surface preparation: In accordance with primer manufacturer's instructions.
3. Apply shop primer after preparation in accordance with primer manufacturer's recommendations at a rate to achieve a uniform dry film thickness of not less than 2.0 mils.
- B. Roof Panels, Wall Panels, Gutters, Downspouts, Trim, and Flashings:
 1. 2 coat polyvinylidene fluoride (PVDF) 70 percent Ausimont USA, Inc. Hylar 5000 or Atochem North America, Inc. Kynar 500 resin-base system complying with AAMA 2605.
 - a. Prime coat: Not less than 0.30 mils dry film thickness.
 - b. Top coat: Not less than 0.90 mils dry film thickness.
 - c. Apply protective strippable film to top side.
 - d. Color: As selected by Owner from manufacturer's standard colors.
 - e. Acceptable manufacturers and product:
 - 1) BASF Polymers Styropor: Fluoroceram.
 - 2) Lilly Industries, Inc. Nubelar.
 - 3) PPG Industries, Inc.: Duranar.
 - 4) The Valspar Corporation: Fluropon.
 - 5) Substitutions: Comply with Section 01630.
 2. Concealed surface finish: Manufacturer has option of same as exposed surface finish or polyester finish.
- C. Liner Panel: Manufacturer's standard polyester finish with a dry film thickness of not less than 0.30 mils.
 1. As selected by Owner from manufacturer's standard color selections.

2.09 SOURCE QUALITY CONTROL

- A. Provide in accordance with Section 01400.
- B. Testing agency may inspect pre-engineered building at fabrication plant before shipment to Project Site.
 1. Architect reserves right to reject material not complying with specified requirements at any time.
- C. Shop Fabrication Test:
 1. Bolted connections: Inspect and test in accordance with AISC Specifications.
 2. Welded connections:
 - a. Review welding personnel certificates of compliance with AWS Qualification Test.
 - b. Visual inspection of all welds.
 - c. Use inspection methods set forth by AISC.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper and timely completion.
 1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Obtain Architect's approval prior to Site cutting or making adjustments.
- B. Make provisions for erection loads, and for sufficient temporary bracing, with connections of sufficient strength, to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing.

3.03 INSTALLATION

- A. Comply with AISC Specifications.
- B. Setting Bases and Bearing Plates: Clean surfaces of concrete, masonry and steel of bond reducing materials, and roughen to improve bond.
 - 1. Set loose and attached base plates and bearing plates for structural members on wedges or other suitable adjusting devices.
 - 2. Tighten anchor bolts after supporting members have been positioned and plumbed.
 - 3. Cut off shims protruding beyond base or bearing plates flush with edge of plate.
 - 4. Grout void between bearing surface and base and bearing plates using non-metallic shrinkage resistant grout in accordance with grout manufacturer's instructions.
- C. Set structural frames accurately to lines and elevations indicated on Drawings.
 - 1. Align and adjust various members forming a part of a complete frame or structure before permanently fastening.
 - 2. Level and plumb individual members within AISC tolerances.
 - 3. Establish required leveling and plumbing measurements on mean operating temperature of structure.
 - a. Make allowances for difference between temperature at time of erection and mean temperature at which structure will be completed and in service.
- D. Field Welding: Perform as specified, in PART 2 of this Section.
 - 1. Touch up welds in shop painted items with shop primer.
- E. Bolt Tightening:
 - 1. ASTM A325 bolts: Tighten bolt in accordance with ASTM A325, fully tensioned.
 - a. Use direct tension indicating washers to demonstrate full pre-tension.
 - 2. Load indicator bolts: Install in accordance with manufacturer's instructions.
- F. Gas Cutting: Do not use gas cutting torches in field to correct fabrication errors in primary structural framing.
 - 1. Cutting will be permitted on secondary members which are not under stress, as acceptable to Structural Engineer.
 - 2. Finish gas-cut sections equal to a sheared appearance.
- G. After installation, touch up shop finish at field welds, scratched or damaged areas, bolt connections, and abraded areas.
 - 1. Use same paint material as used for shop factory finish with same dry film thickness as specified for shop factory finish.
- H. Install roofing panels in accordance with manufacturer's instructions and UL Class 90 wind uplift requirements, with long dimension running parallel with gable ends.
 - 1. Install panels continuous from gutter line to ridge.
 - 2. Seal sidelaps and endlaps with sealant.
 - 3. Install roof insulation in accordance with manufacturer's instruction in 1 piece lengths.
 - a. Seal vapor barrier at edges to provide continuous vapor barrier system.
 - 4. Install trim and flashing as required for weathertight closure.
 - 5. Install roof curbs and snow guard in accordance with manufacturer's instructions.
- I. Install wall panels in accordance with manufacturer's instructions, with long dimension vertical and plumb.
 - 1. Install panels continuous from sill to top of wall.
 - 2. Align bottom of panels level.
 - 3. Install wall insulation in accordance with manufacturer's instructions in 1 piece lengths.
 - a. Seal vapor barrier at edges to provide continuous vapor barrier system.
 - 4. Install trim and flashing as required for weathertight closure.

- J. Install gutters, downspouts, flashings, and other metal accessories in accordance with manufacturer's instructions for weathertight enclosure.
 - 1. Comply with SMACNA Architectural Sheet Metal Manual.
- K. Erection Tolerances:
 - 1. Maximum variation from plumb: 1/4 inch per story, non-cumulative.
 - 2. Maximum offset from true alignment: 1/4 inch.

3.04 FIELD QUALITY CONTROL

- A. Provide in accordance with Section 01400.
- B. Field Tests:
 - 1. Bolted Connections: Inspect during erection of steel as follows.
 - a. Perform visual inspection of stored bolts to verify that conditions of bolts comply with manufacturer's recommendations.
 - b. Verify Contractor's installation procedures are in conformance with manufacturer's instructions and requirements of Contract Documents.
 - 2. Welded connections: Inspect and test during erection of structural steel.
 - a. Review welding personnel certificates of compliance with AWS Qualification Test.
 - b. Visual inspection of all welds.
 - 1) Liquid penetrate inspection: ASTM E165.
 - 2) Magnetic particle inspection: ASTM E709, performed on root pass and on finished weld. Cracks or zones of incomplete fusing or penetration not acceptable.
 - 3) Radiographic inspection: ASTM E94, minimum quality level "2-2T".
 - 4. Ultrasonic inspection: ASTM E164.

3.05 CLEANING

- A. Clean exposed metal surfaces, removing substances which might cause corrosion of metal or deterioration of finishes.

END OF SECTION